

FIG. 1

BEST AVAILABLE COPY

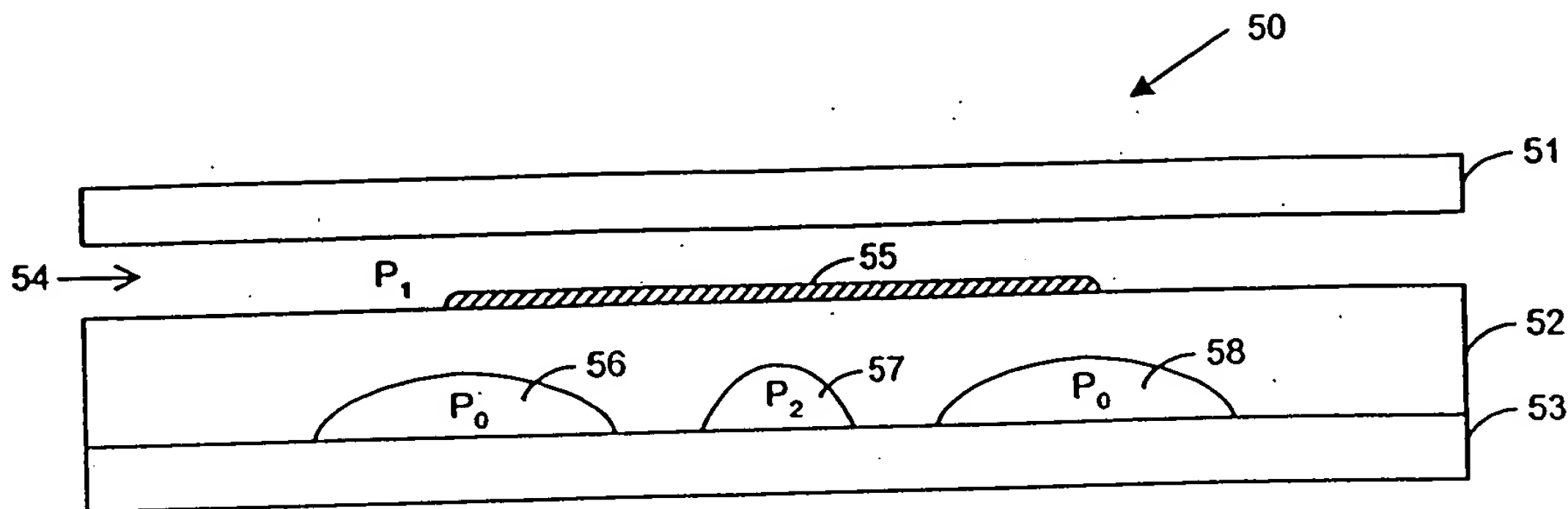


FIG. 5A 2A

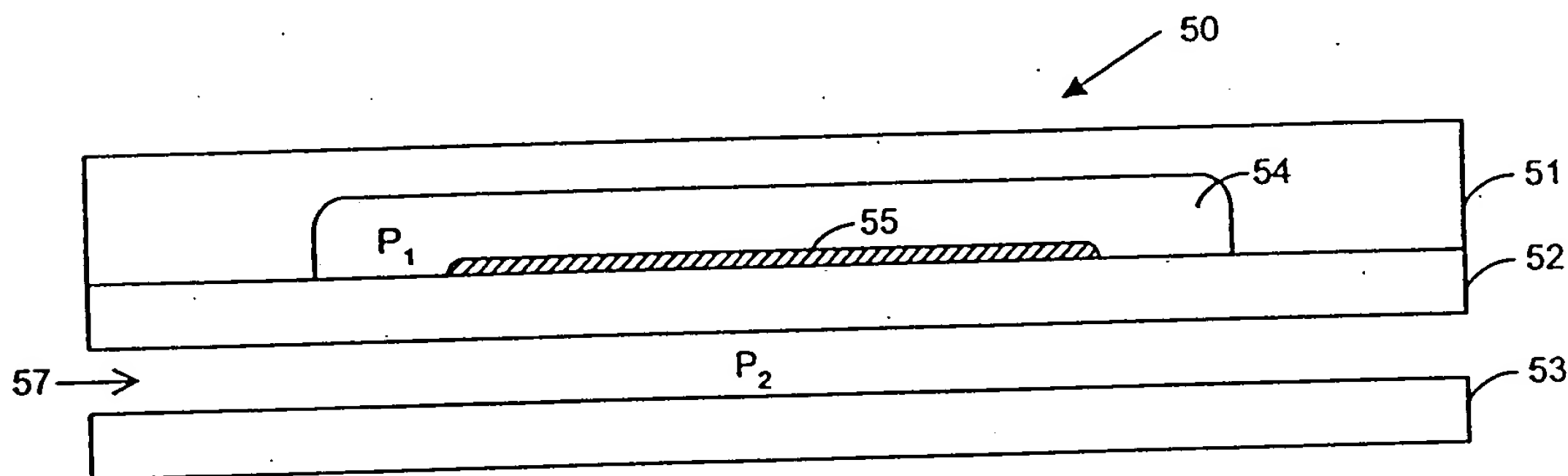


FIG. 5B 2B

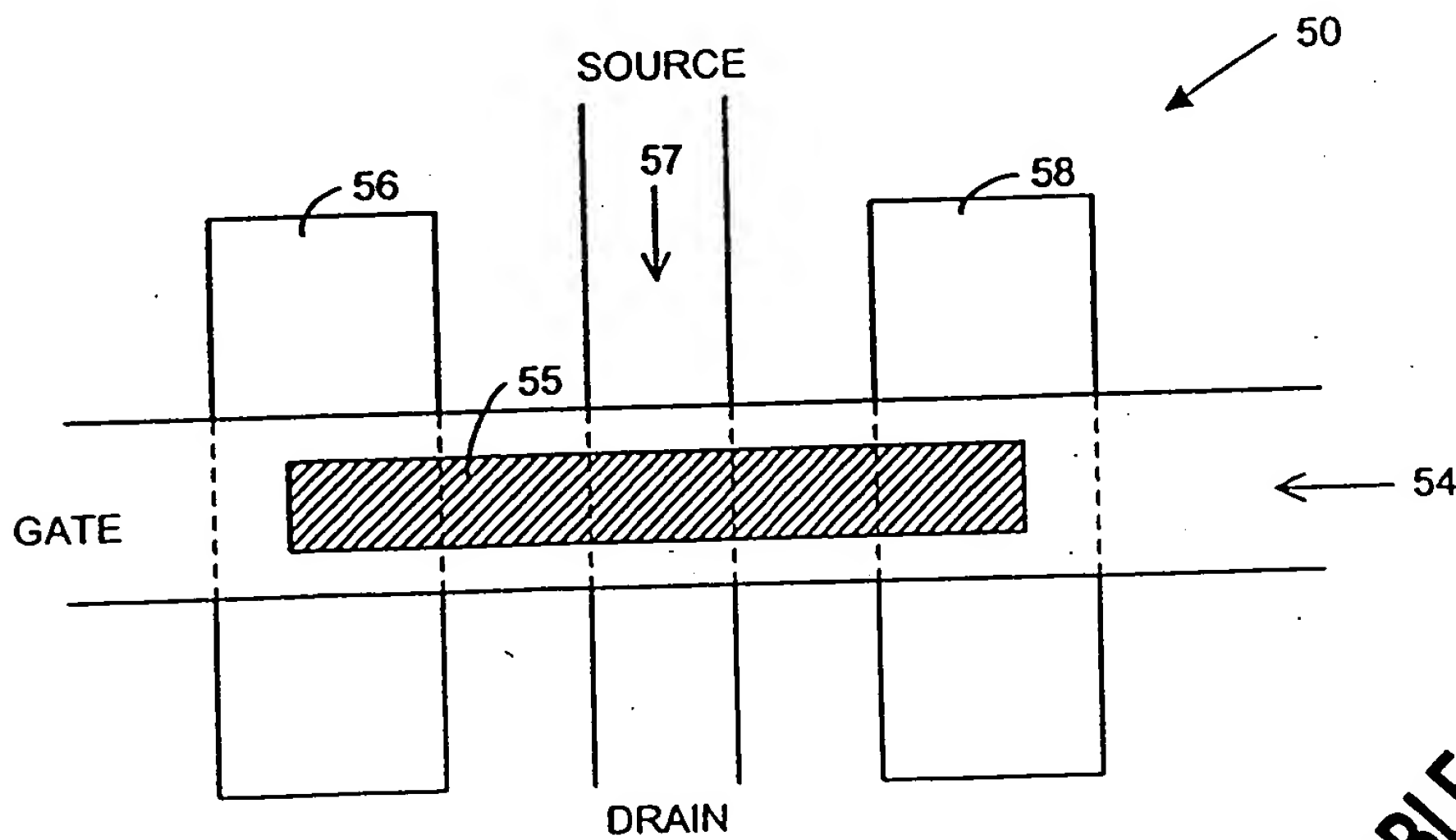
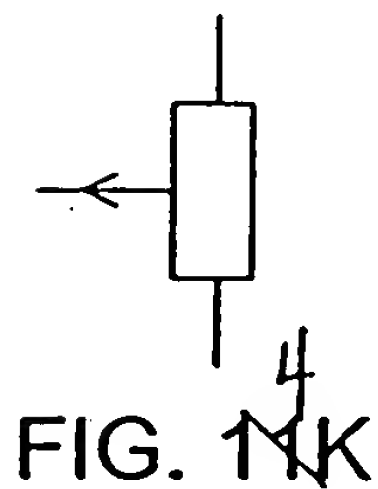
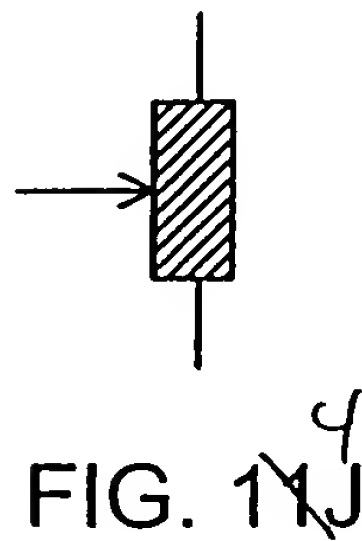
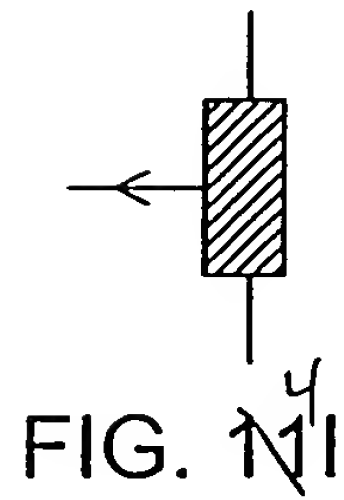
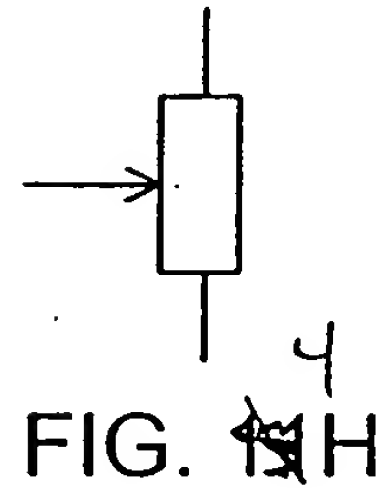
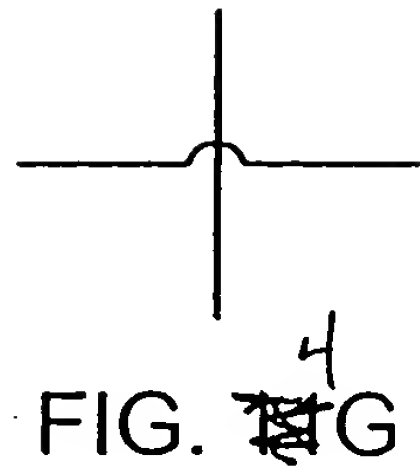
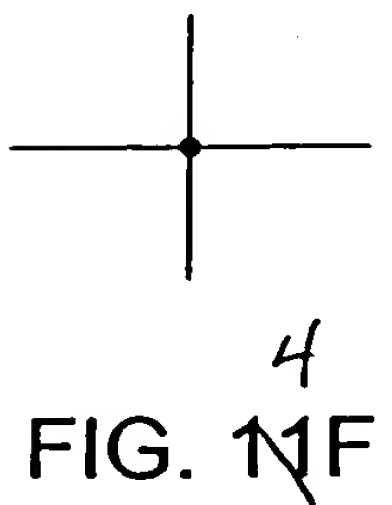
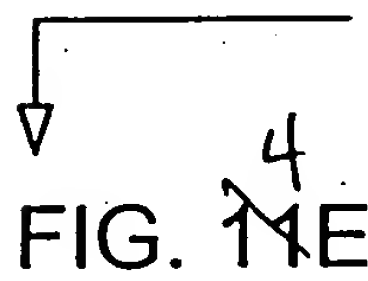
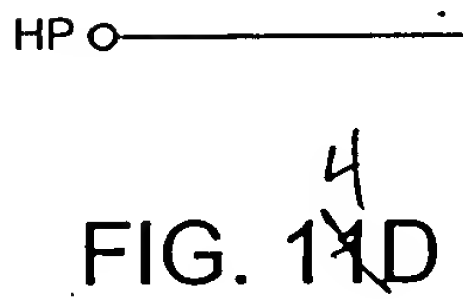
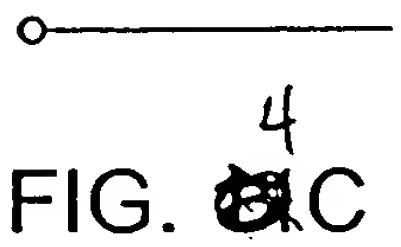
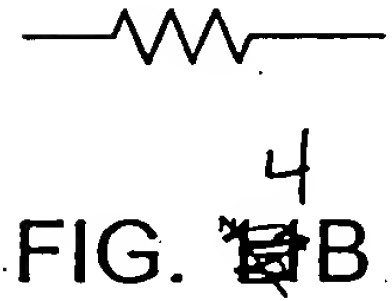
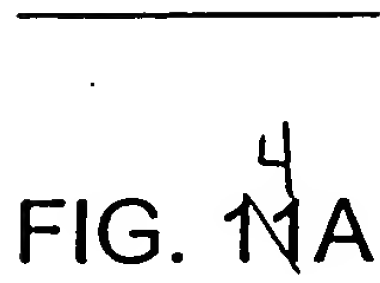


FIG. 6 3

BEST AVAILABLE COPY

FIG. 1A



BEST AVAILABLE COPY

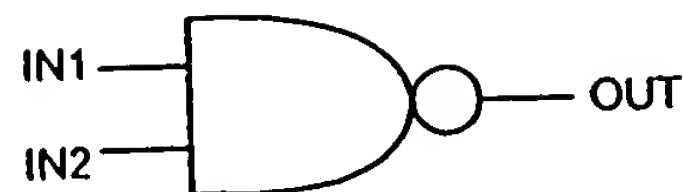
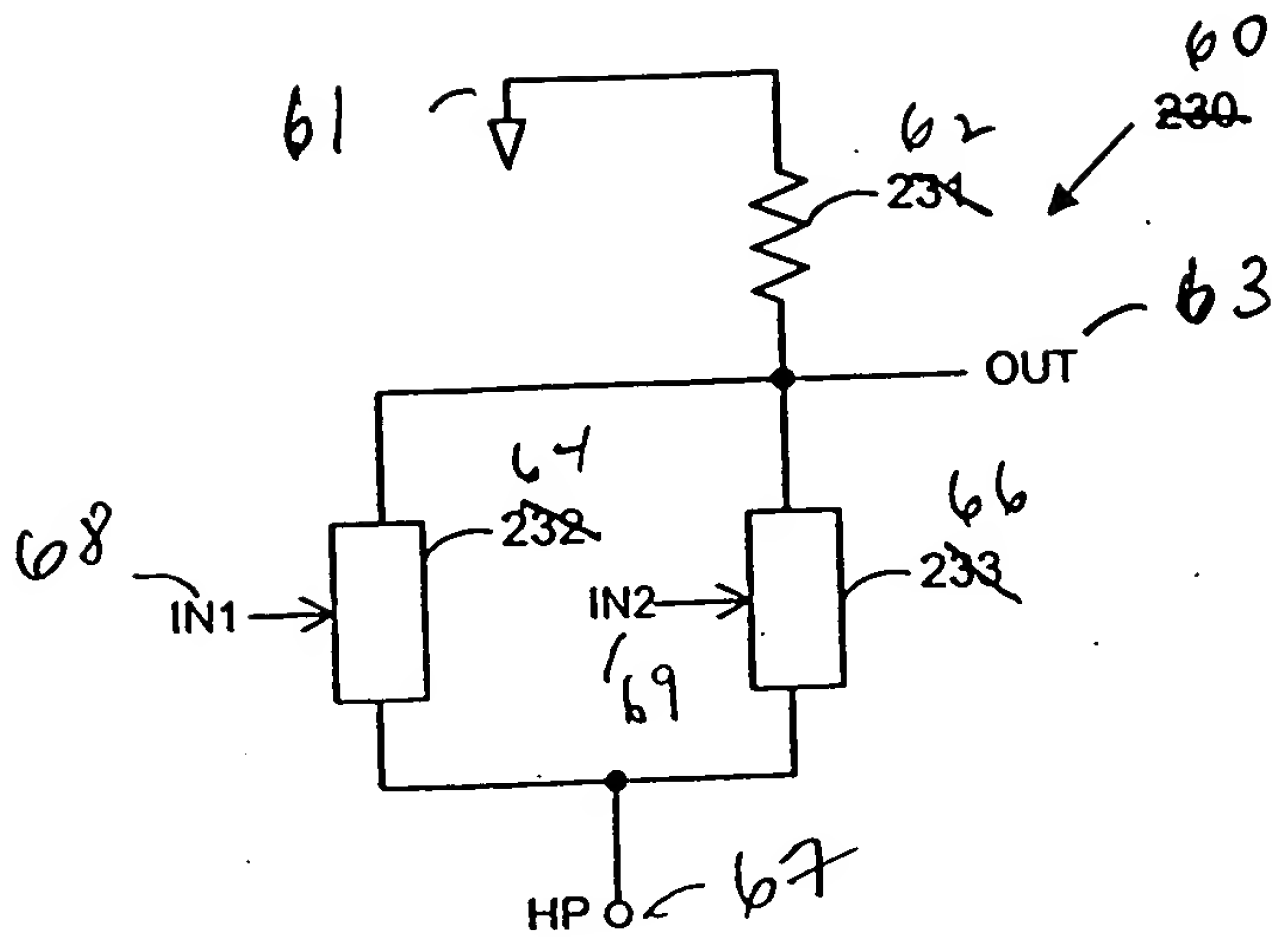
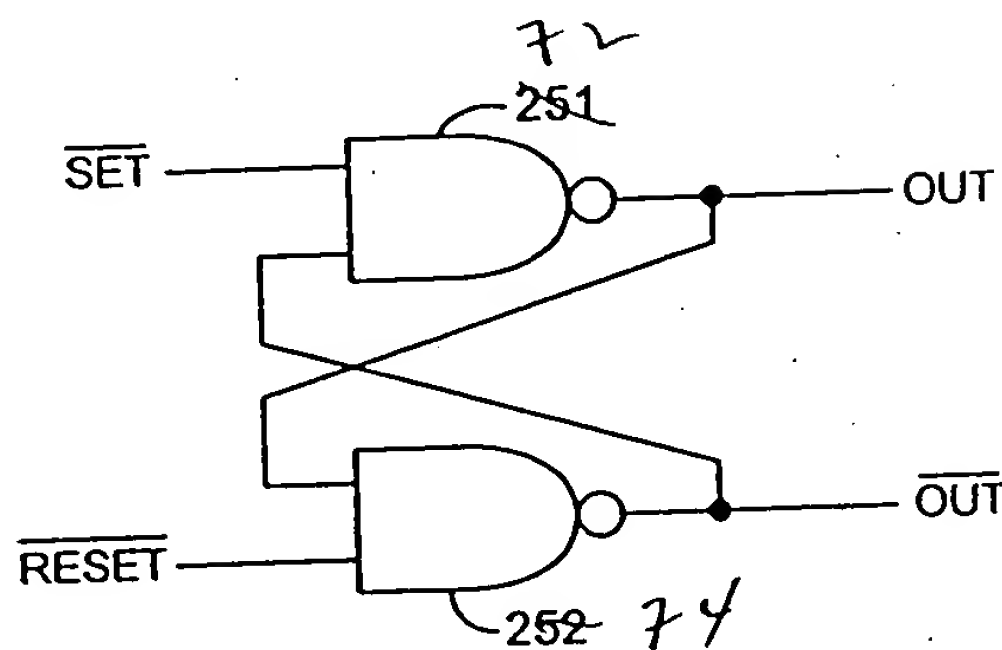


FIG. 5B



BEST AVAILABLE COPY

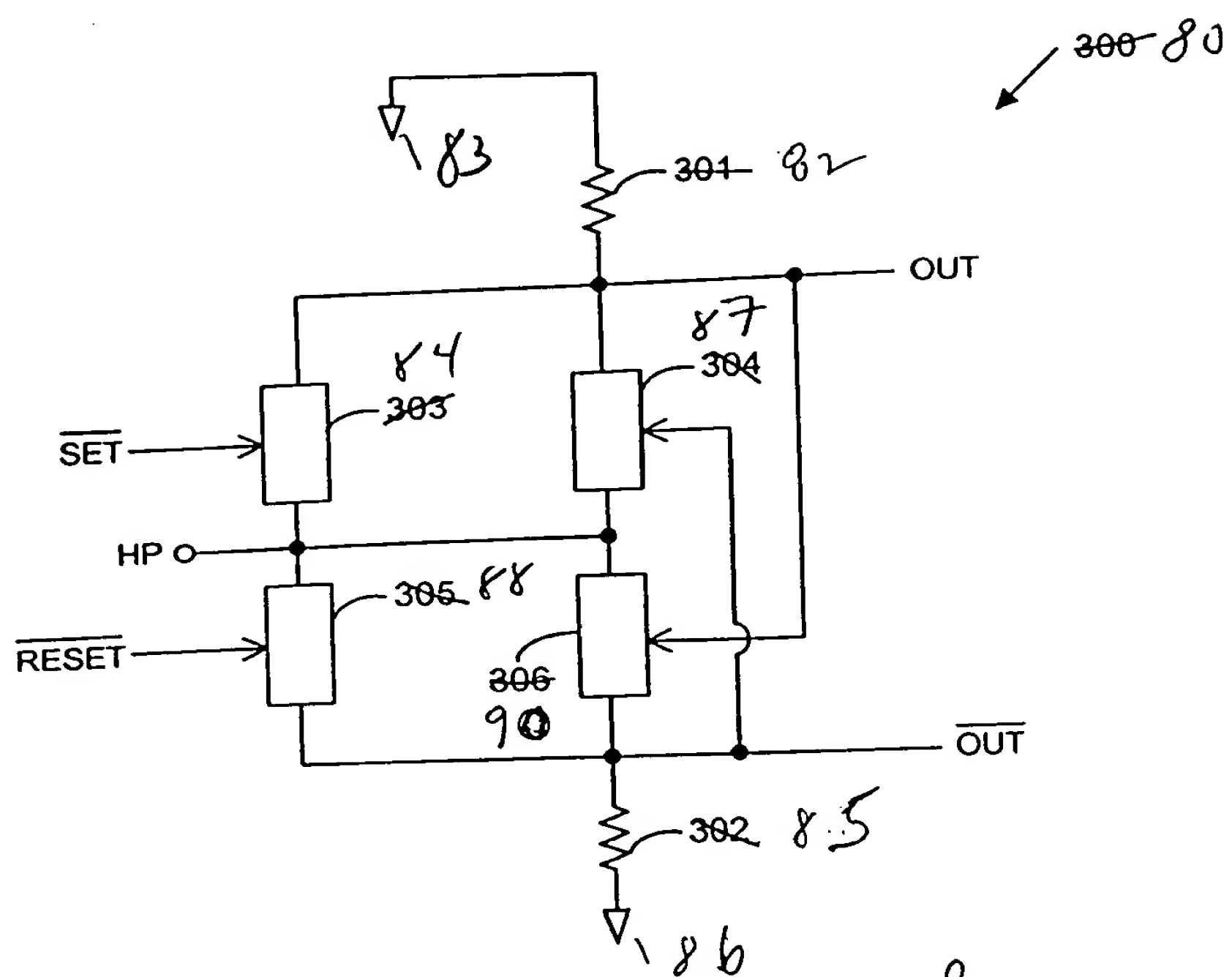
[illegible]

FIG. 14A

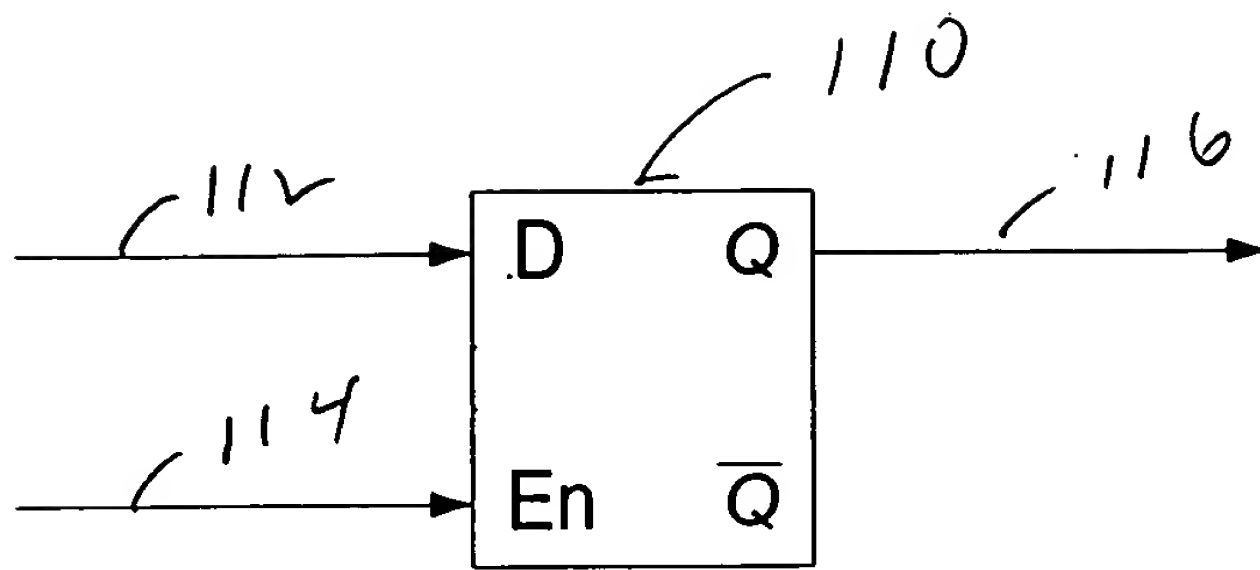


Fig 7A

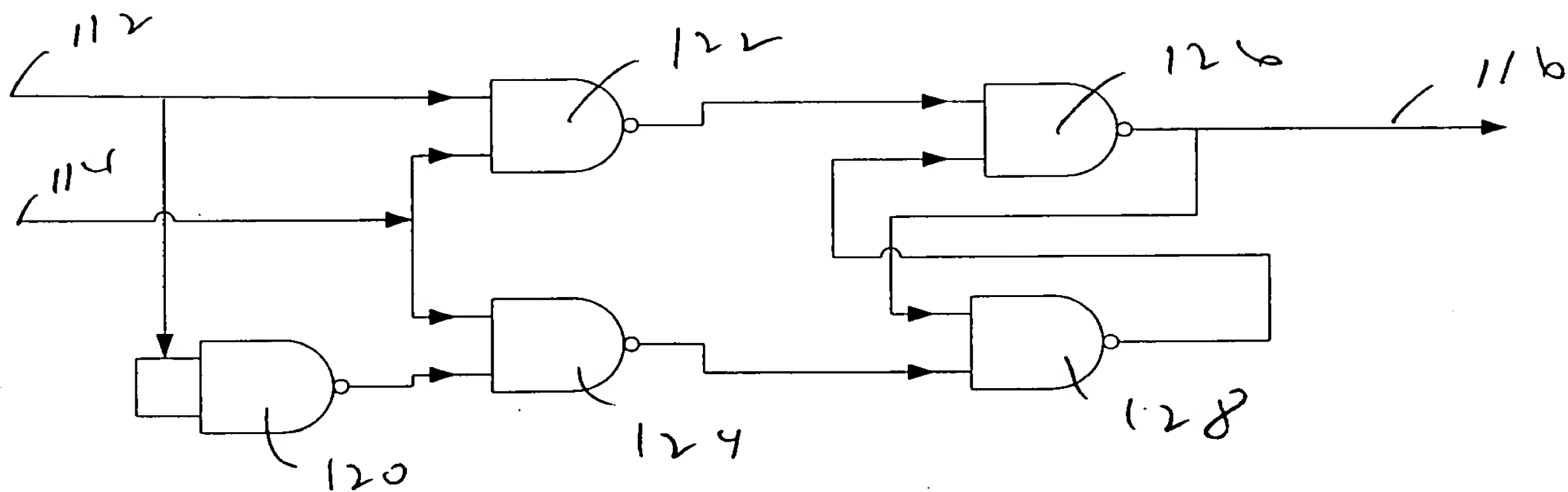


Fig 7B

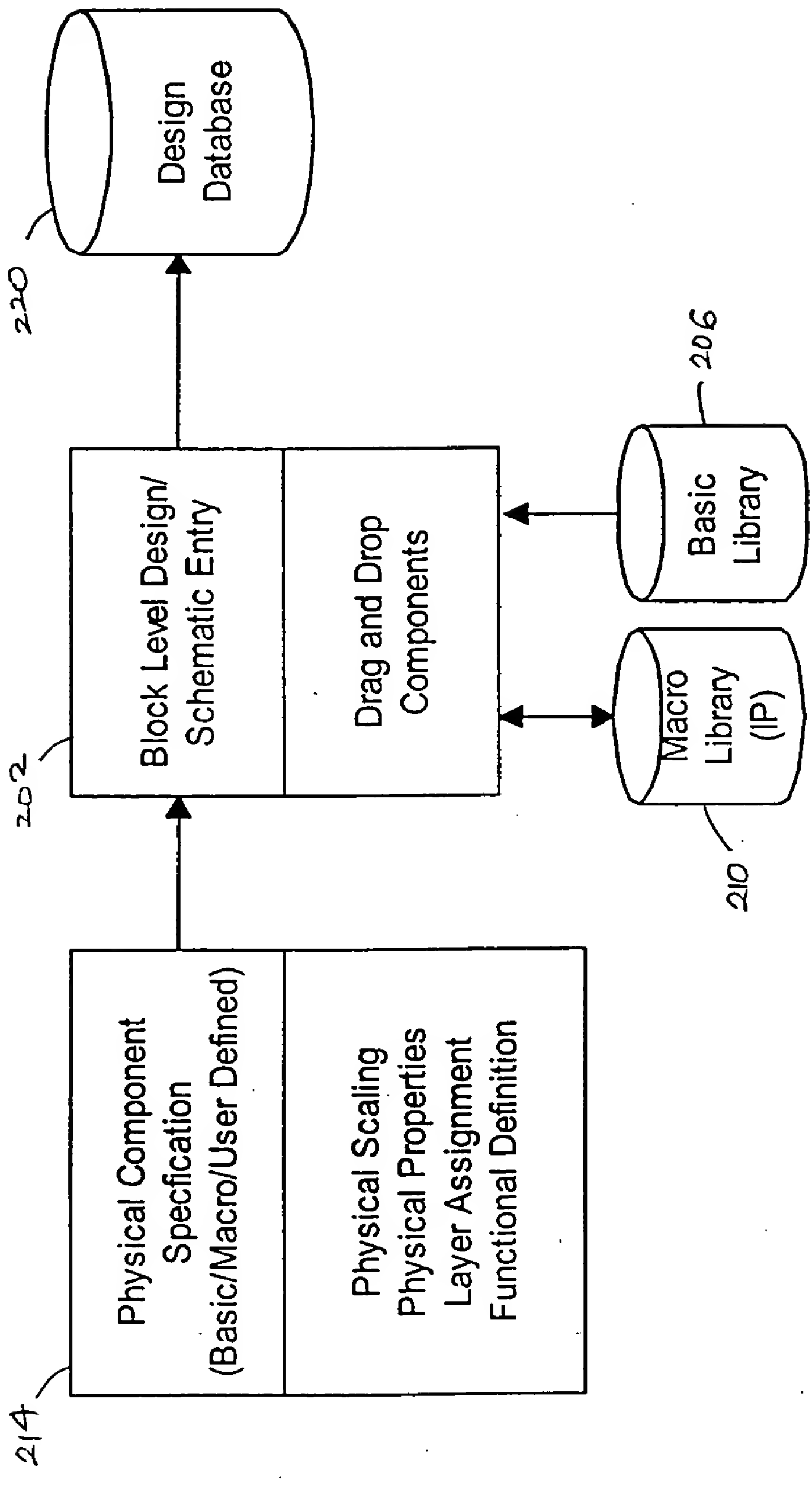


FIG. 7

16. The first part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1) as $t \rightarrow \infty$. It is shown that the solutions of the system (1) are bounded and tend to zero as $t \rightarrow \infty$. The second part of the paper is devoted to the study of the asymptotic behavior of the solutions of the system (1) as $t \rightarrow 0$. It is shown that the solutions of the system (1) are bounded and tend to zero as $t \rightarrow 0$.



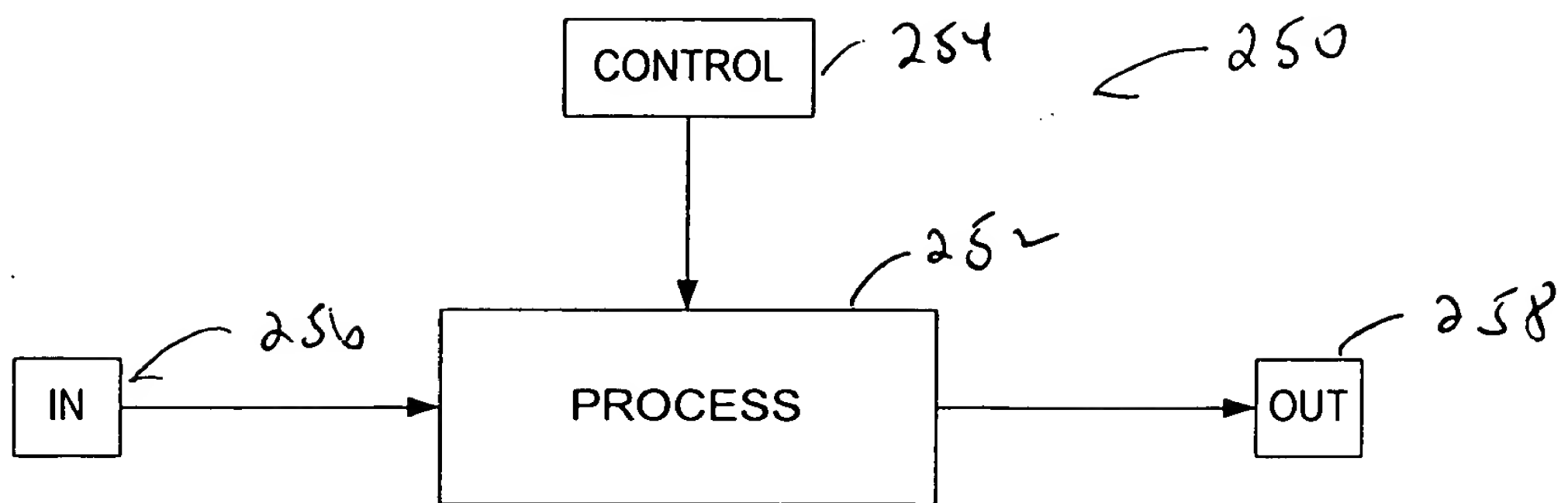


Fig 10

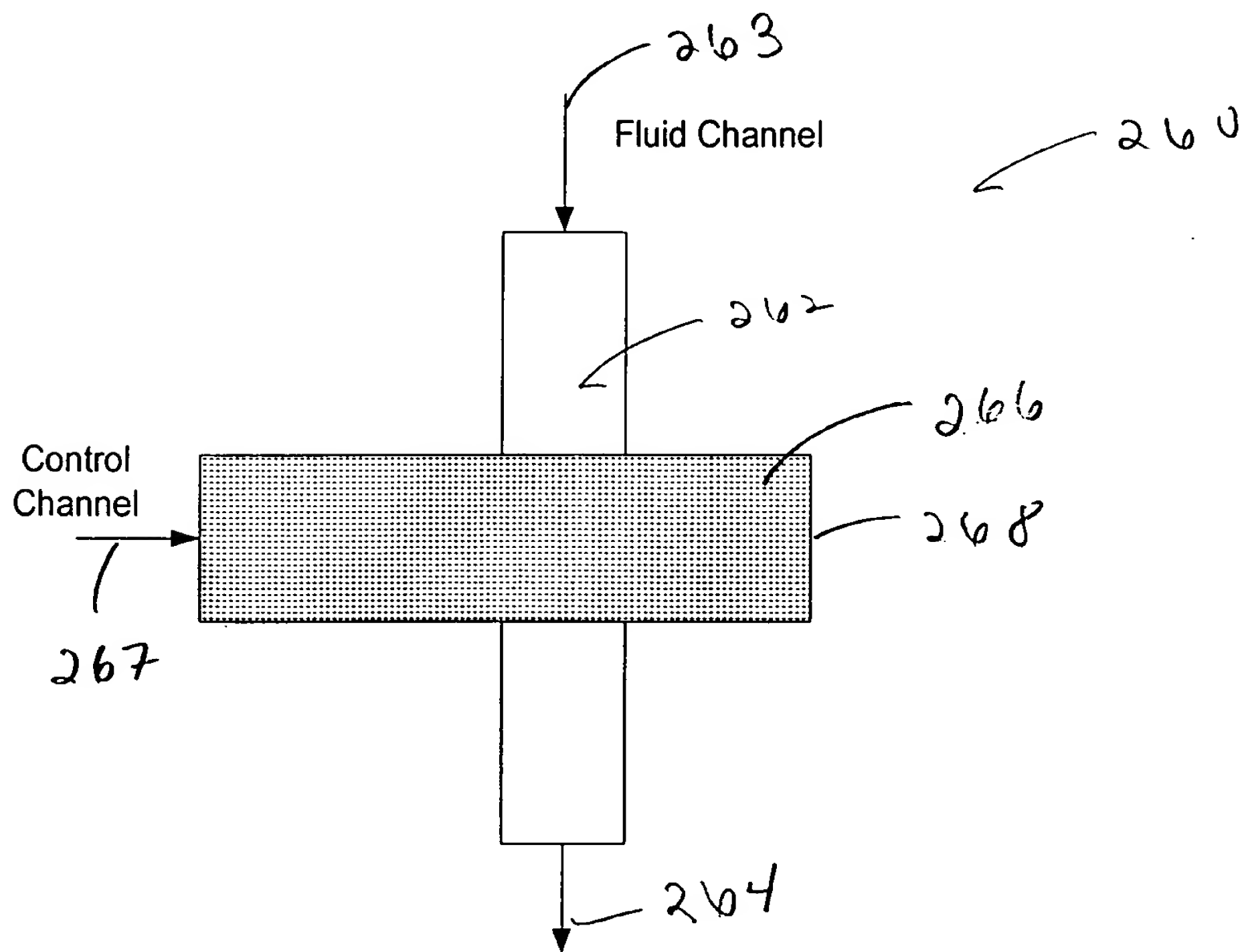
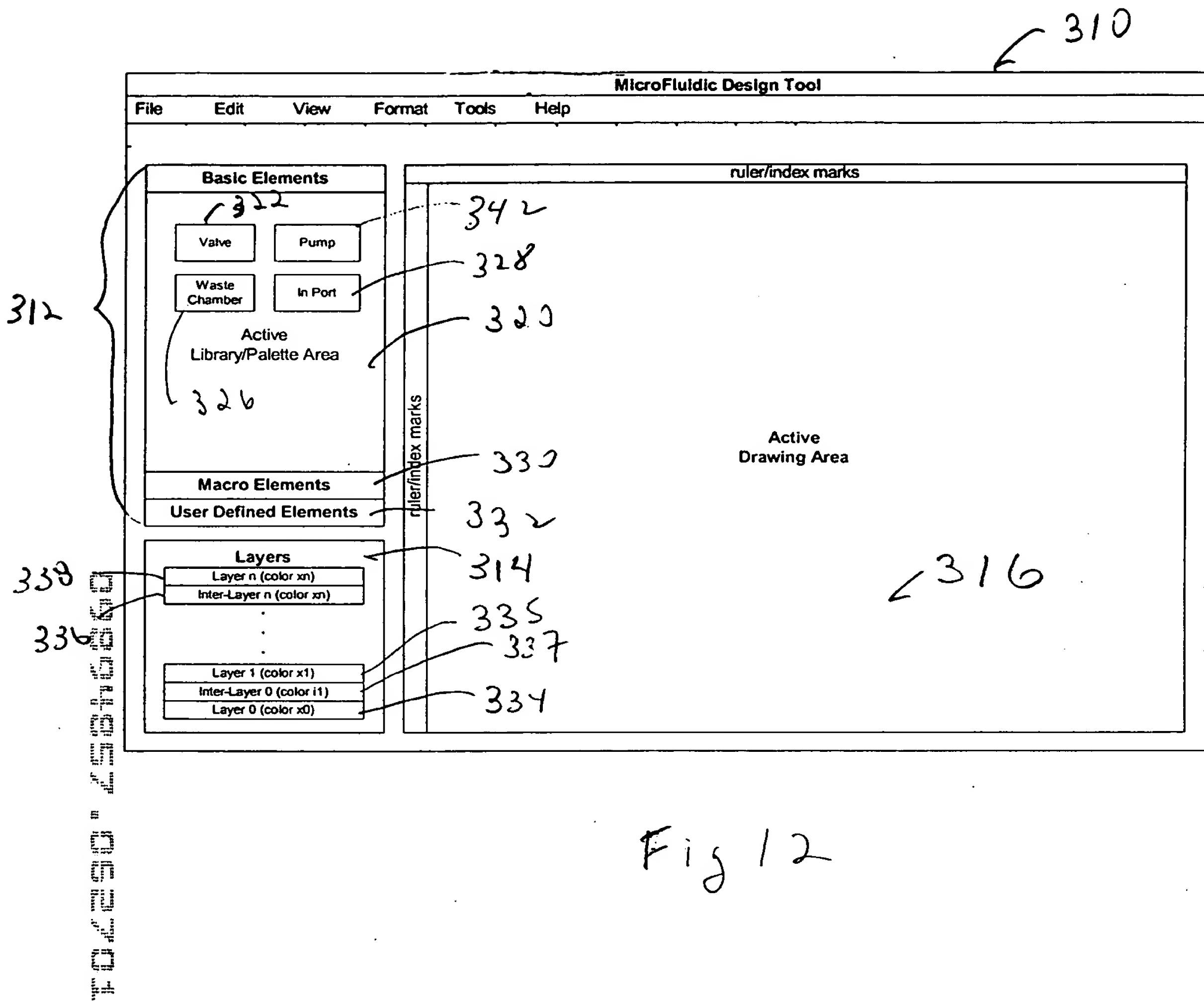


Fig 11

Fig 10



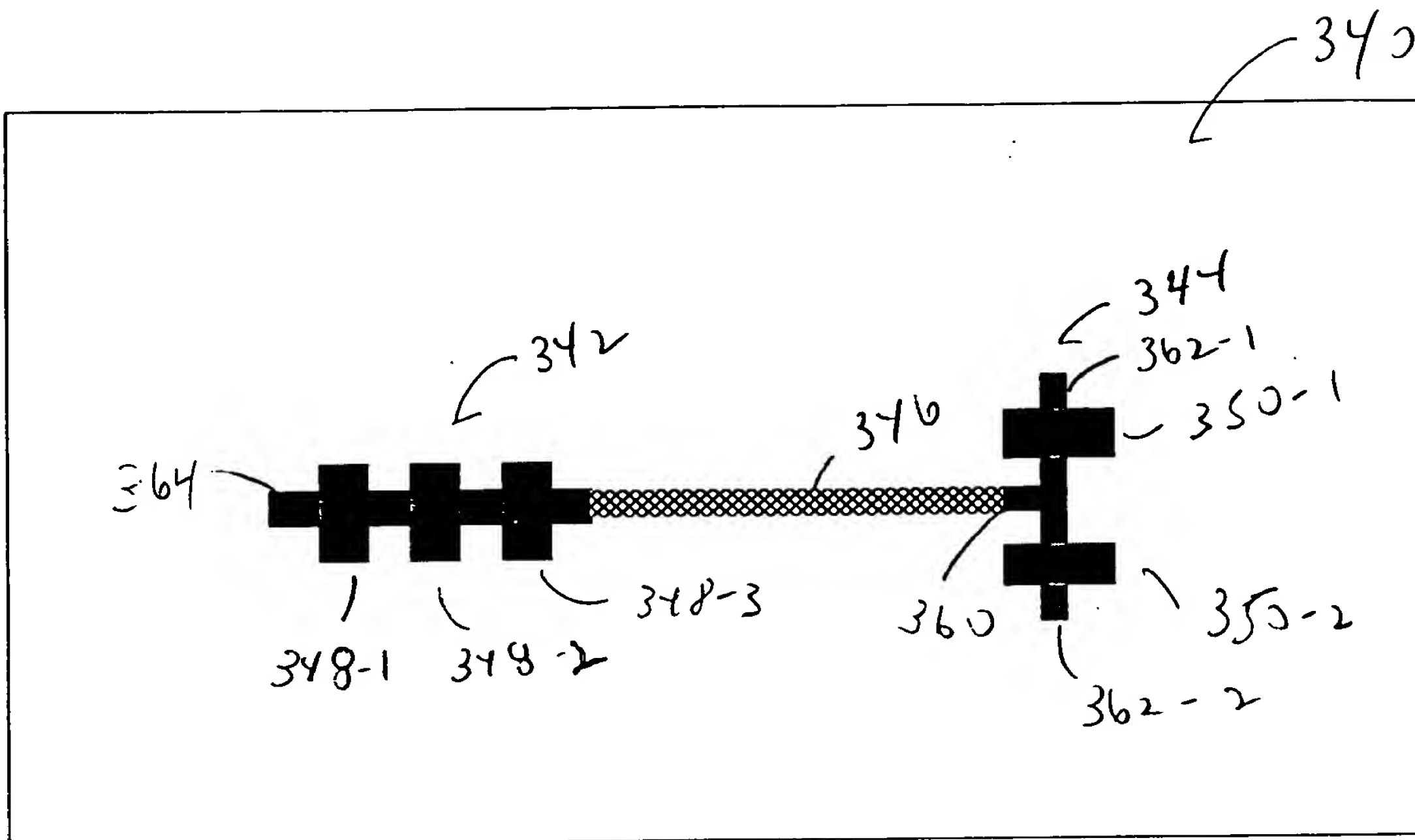


Fig 13A

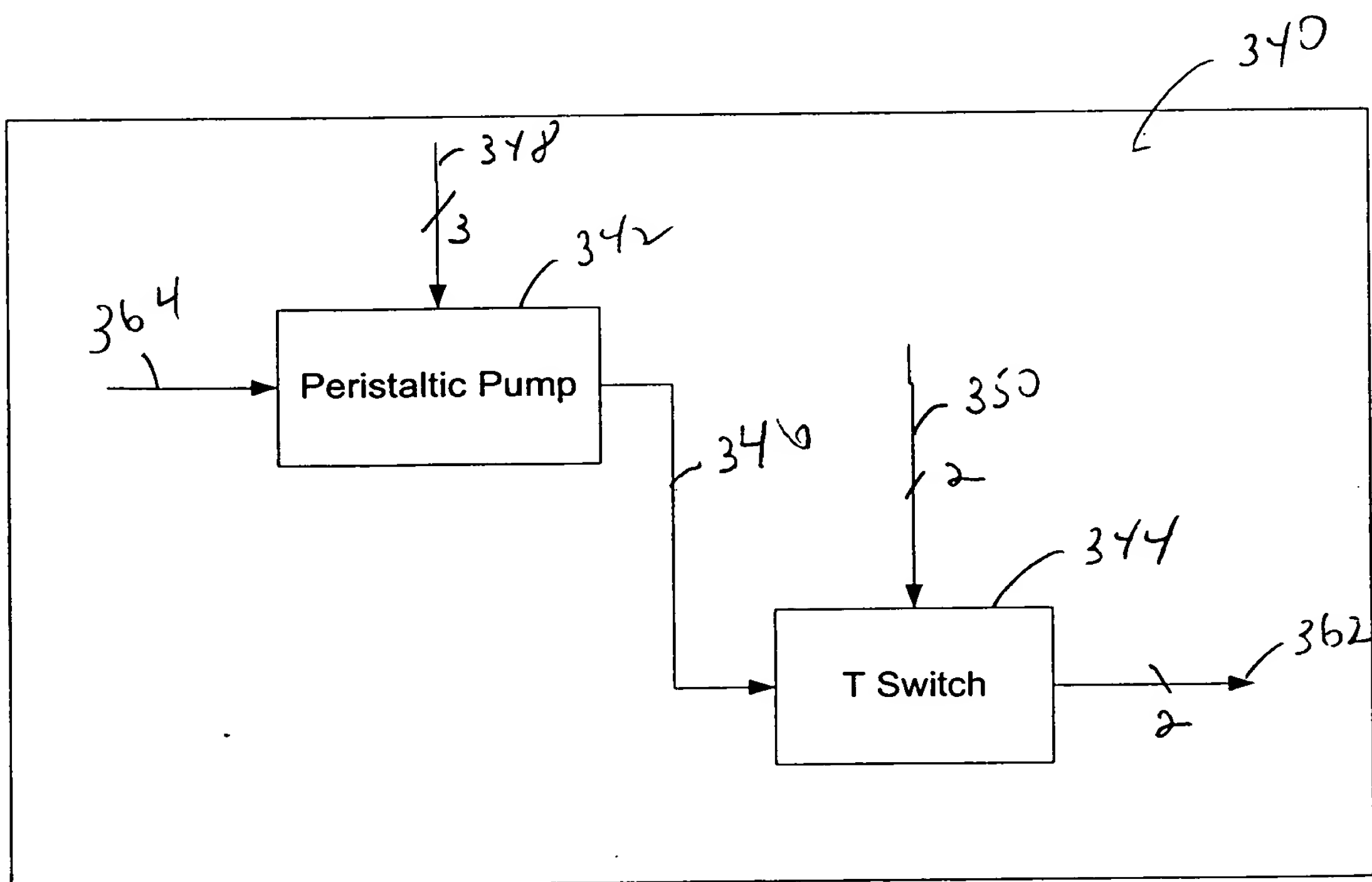


Fig 13B

360
300

FIG. 14

380
300

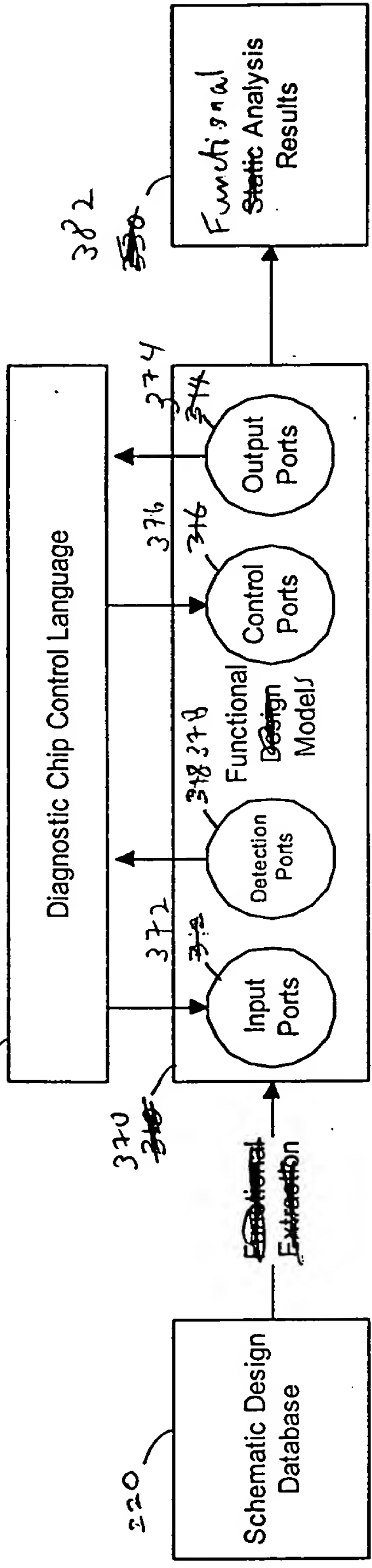


FIG. 14

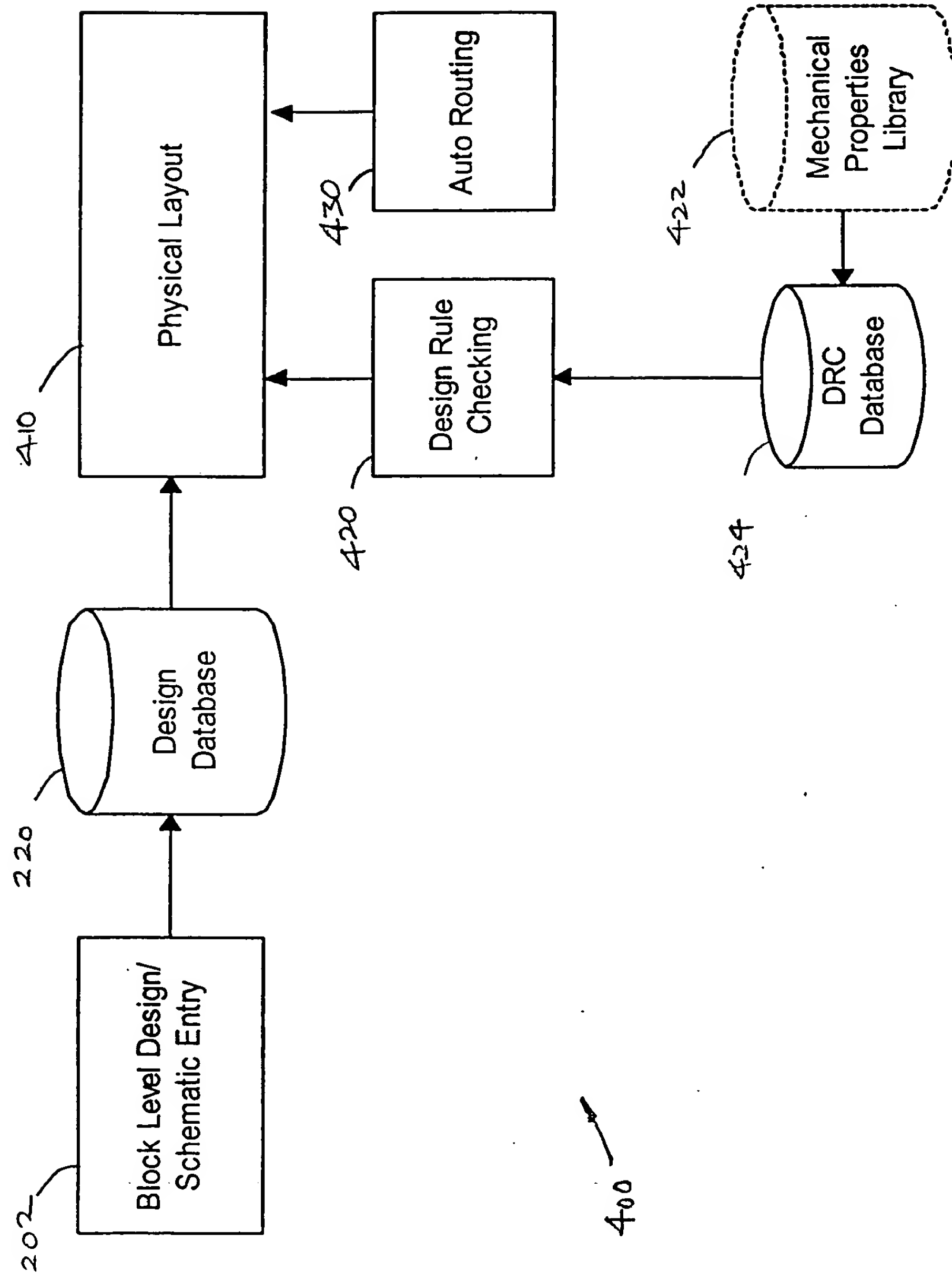
[illegible]

FIG. 4 15

00004057 032704

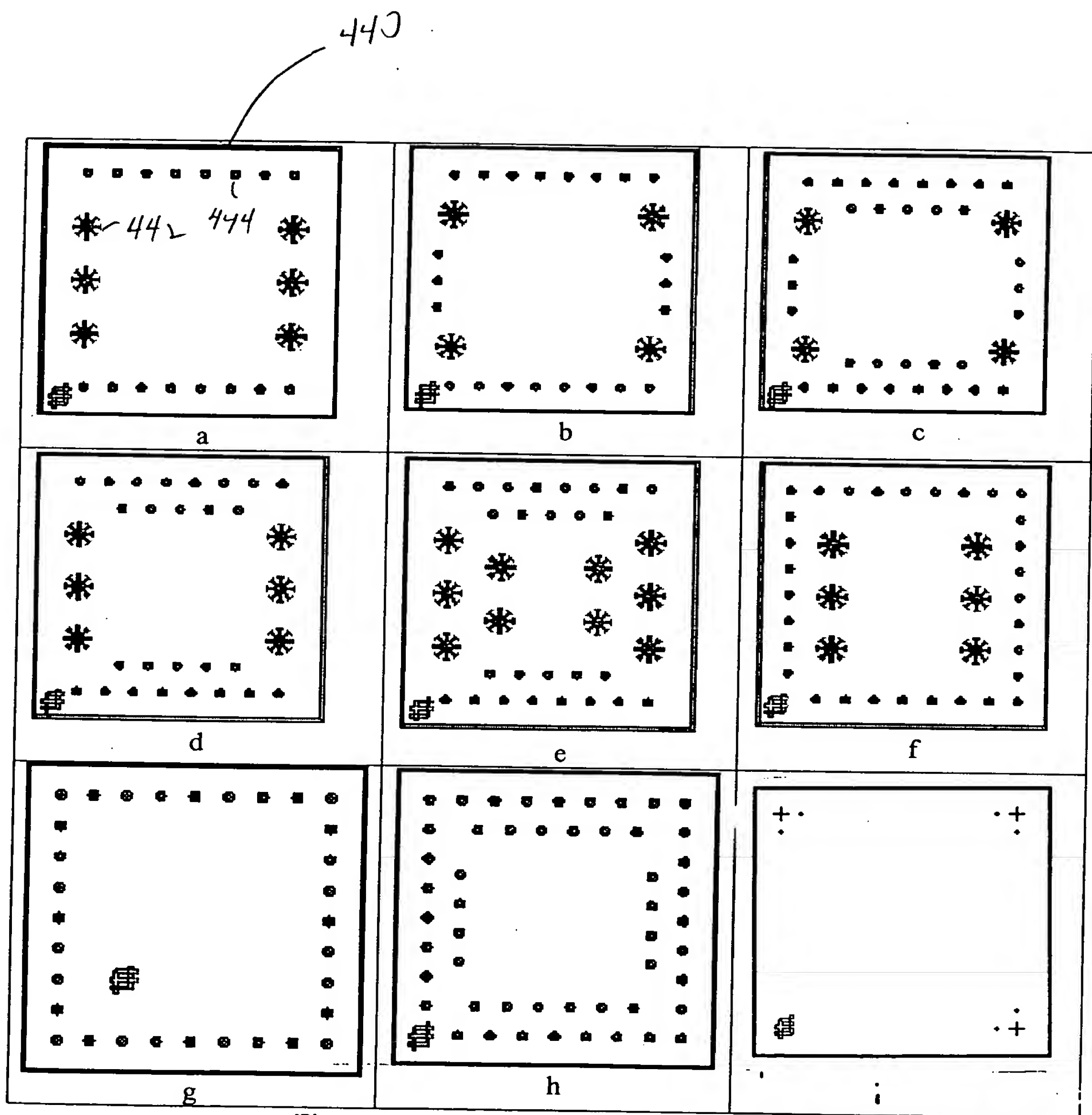
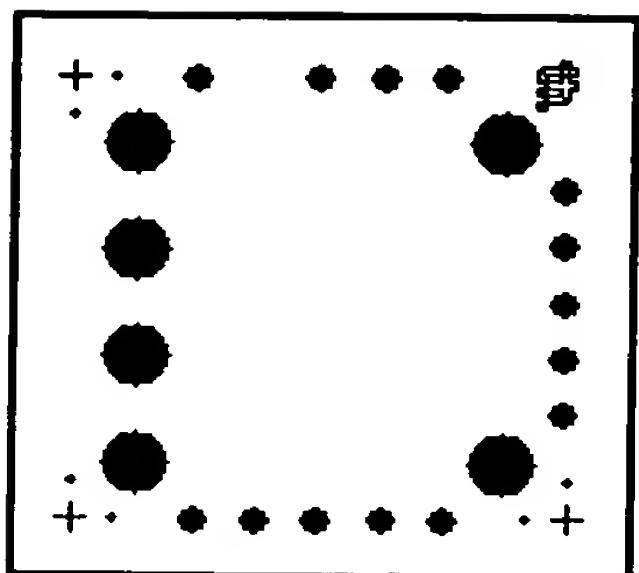
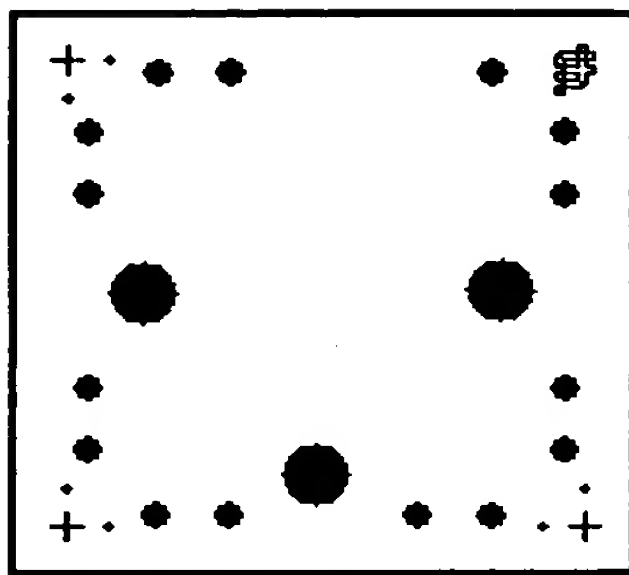


Fig 16A

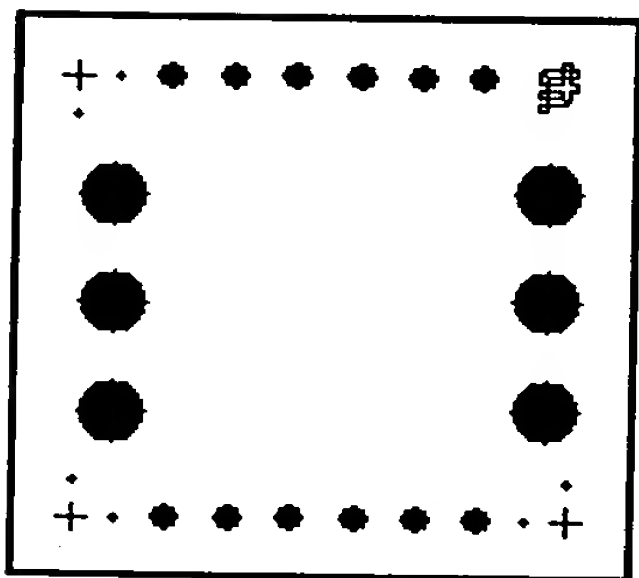
00004927 173 27 00 4



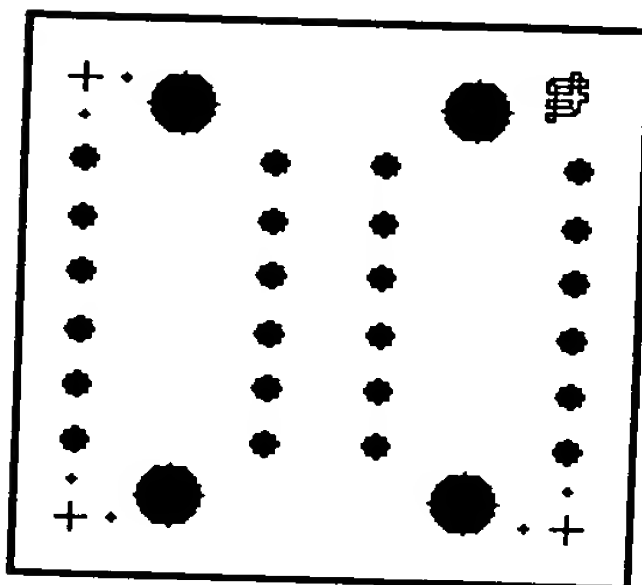
a



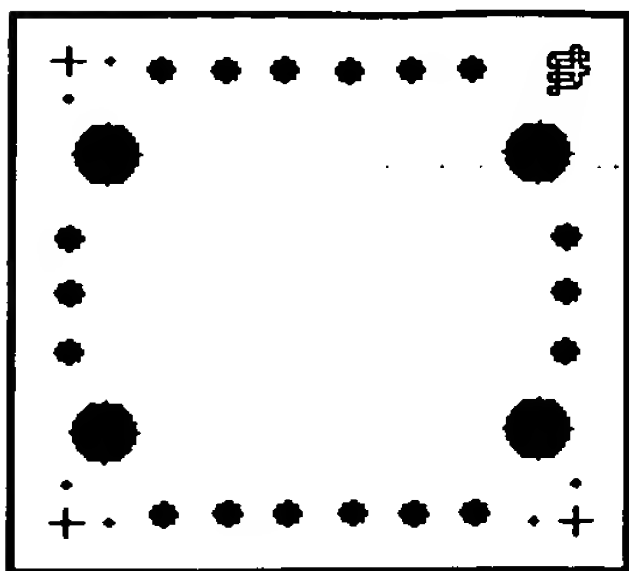
b



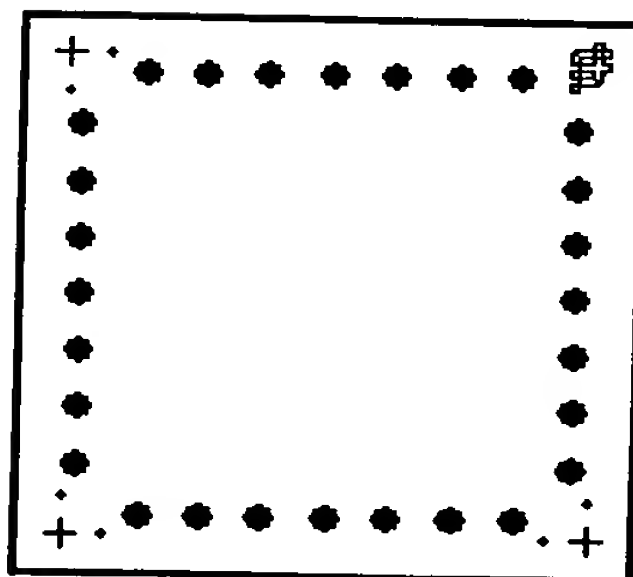
c



d

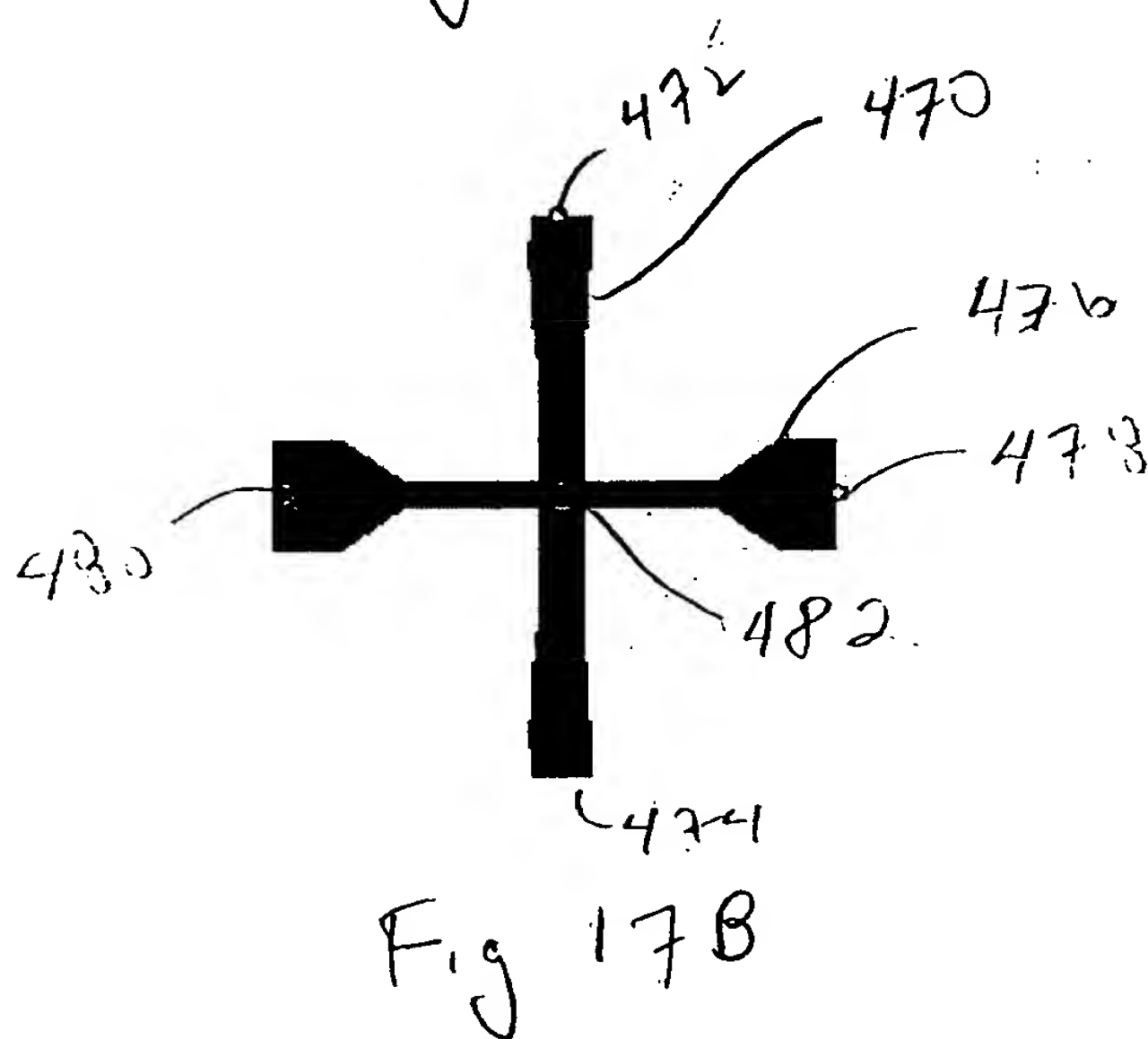


e



f

FIG. 16B



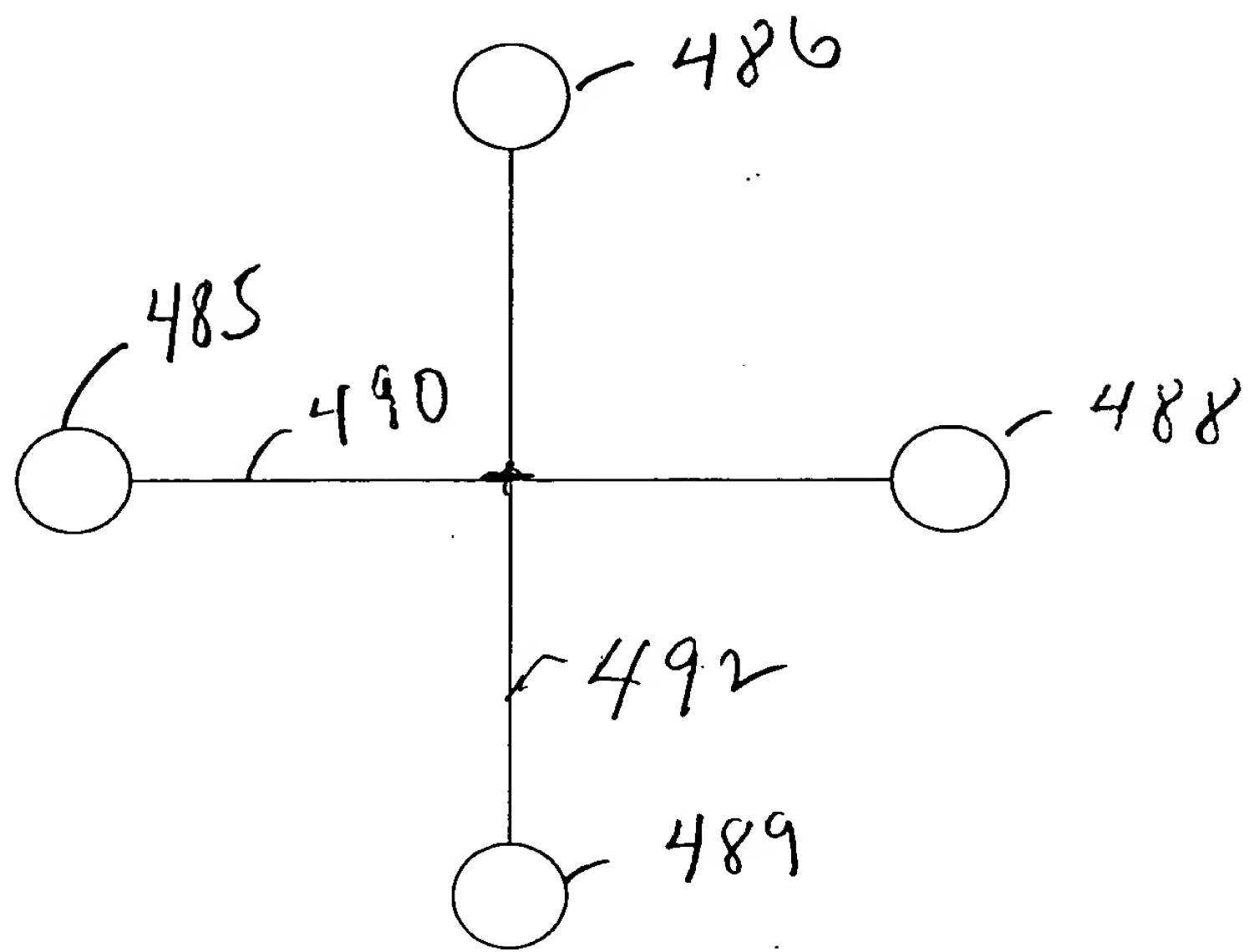


Fig 18 A

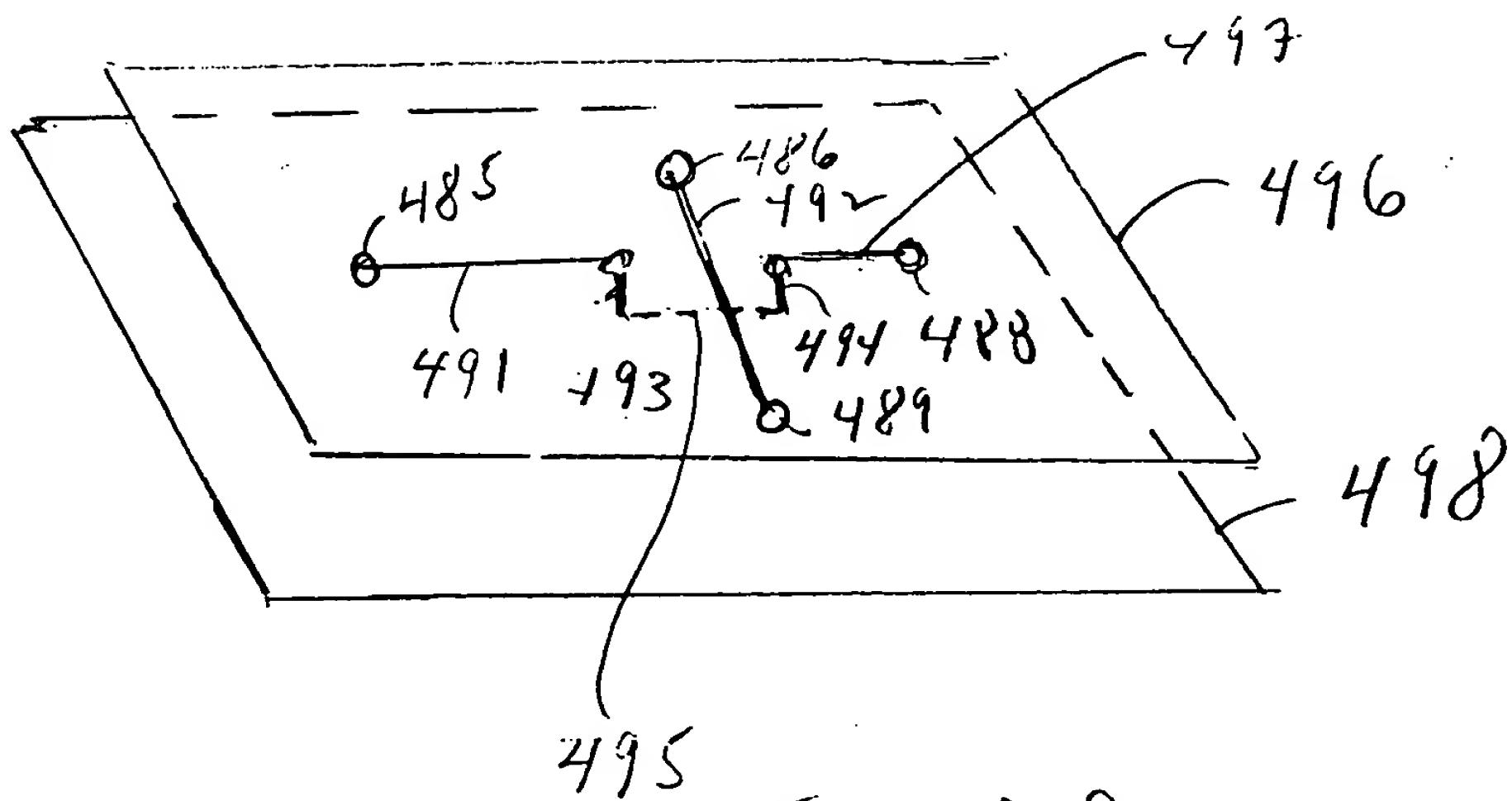


Fig 18 B

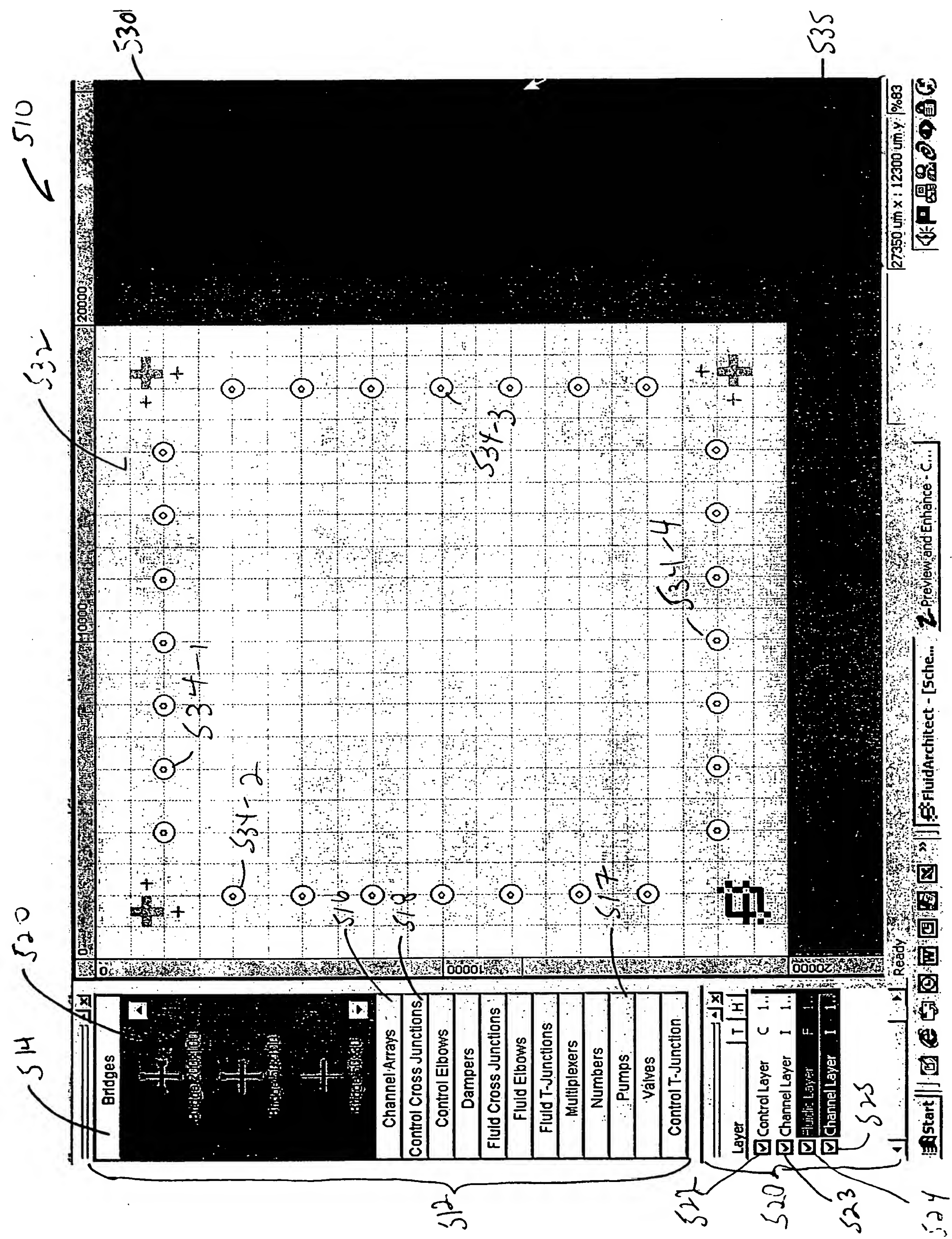


Fig. 19

$\frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx = \frac{1}{\sqrt{\pi}} \int_{-\infty}^{\infty} f(x) e^{-x^2} dx$

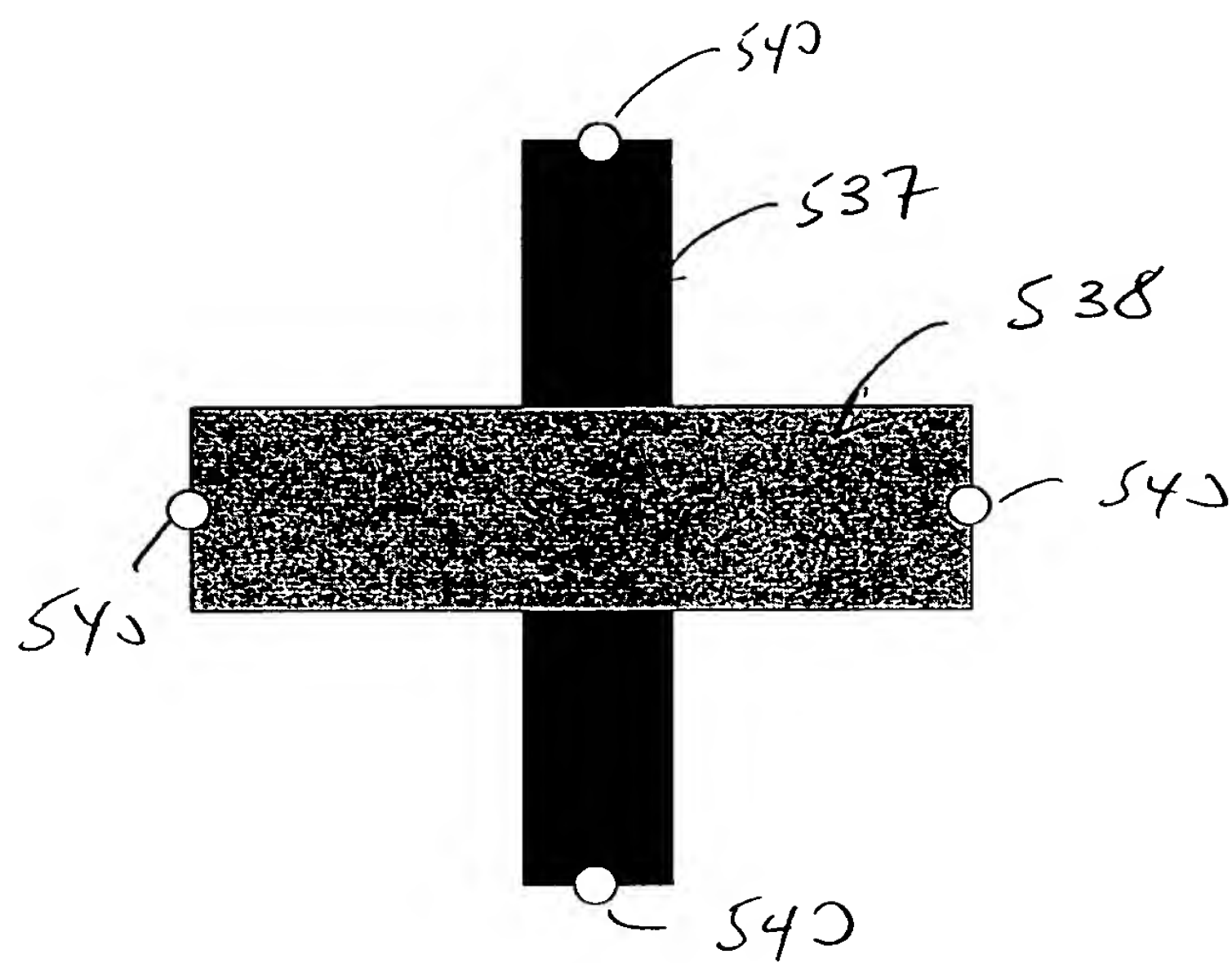


Fig 20

S45

S14

S16

S34-1

S46

S18

S45

S44

S20

S22

S23

S24

S25

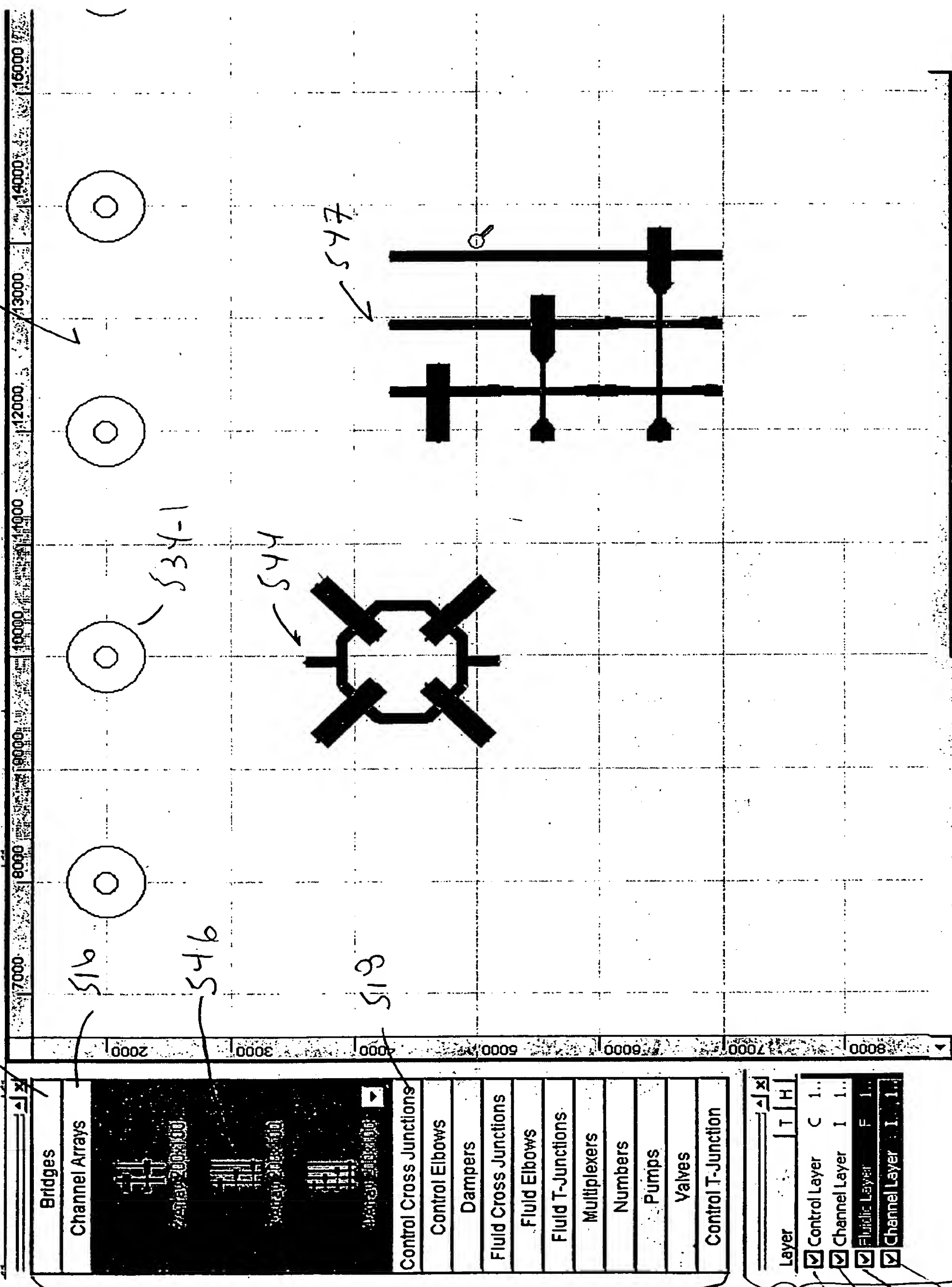


Fig 21

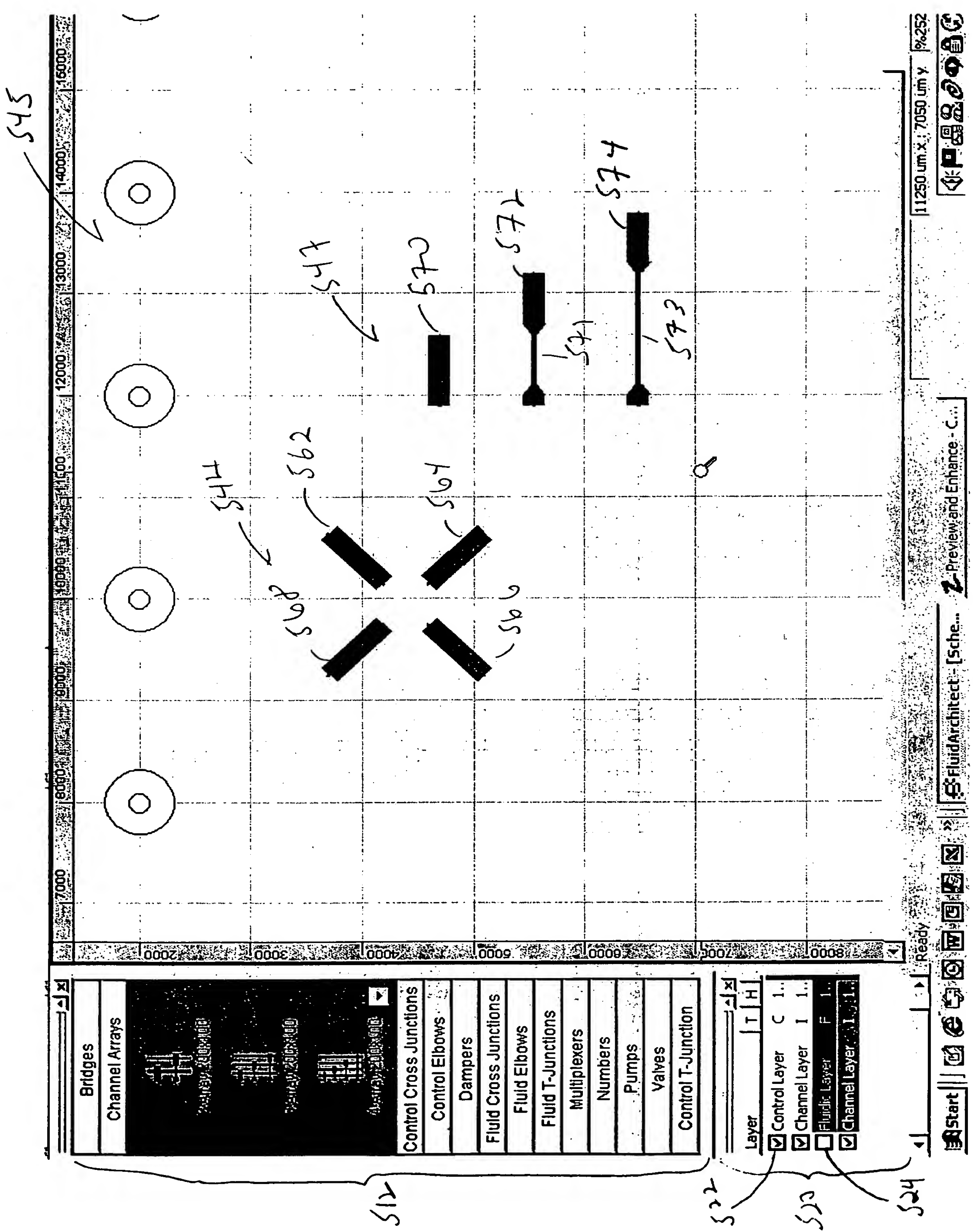
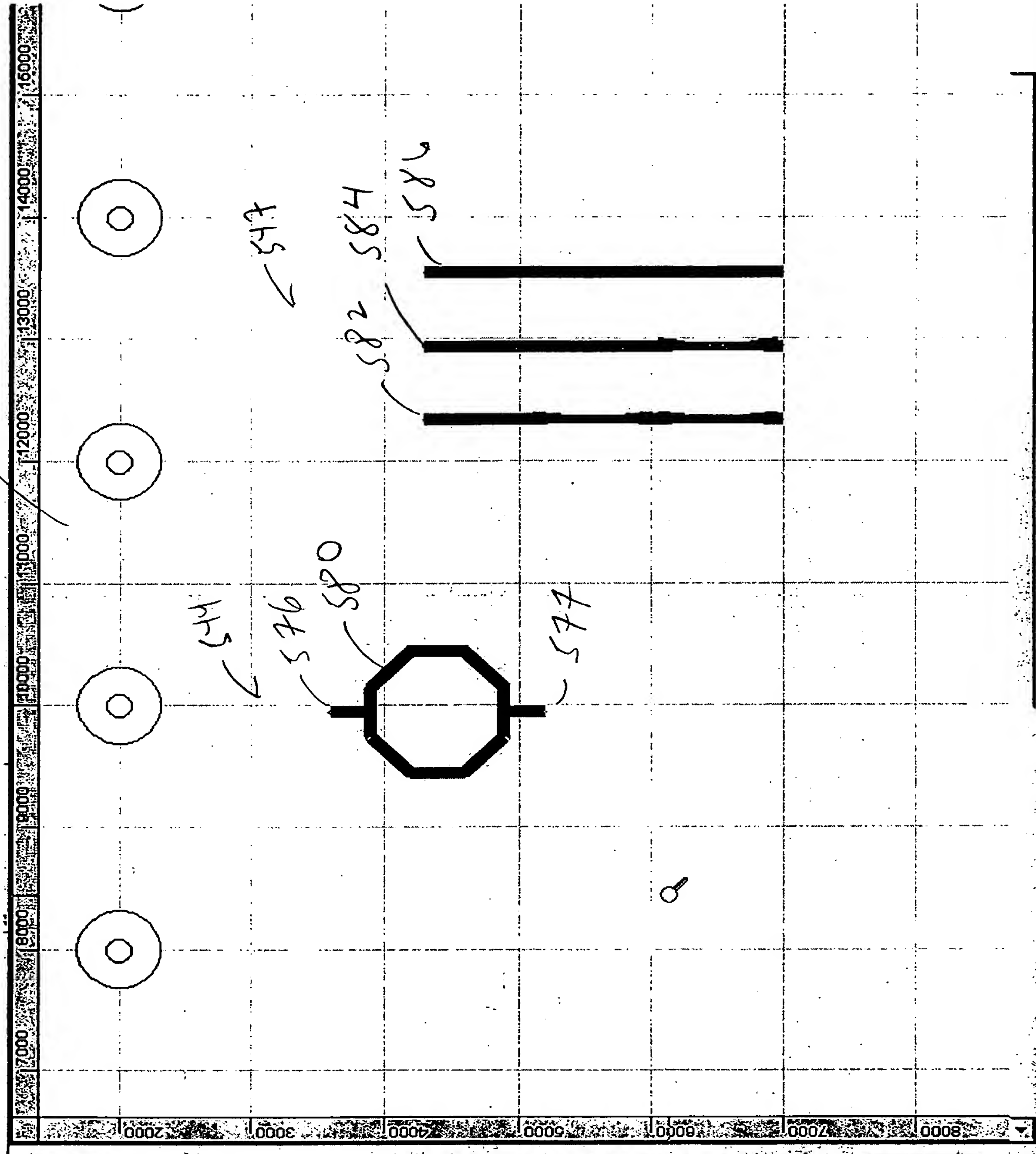


Fig 22

545



8450 um X : 6150 um Y %252

FluidArchitect - [Sche...]

Preview and Enhance - C...

Start

Ready

Bridges
Channel Arrays
Control Cross Junctions
Control Elbows
Dampers
Fluid Cross Junctions
Fluid Elbows
Fluid T-Junctions
Multiplexers
Numbers
Pumps
Valves
Control T-Junction

Layer	T	H
Control Layer	C	1..
Channel Layer	I	1..
Fluidic Layer	F	1..
Channel Layer	I	1..

512

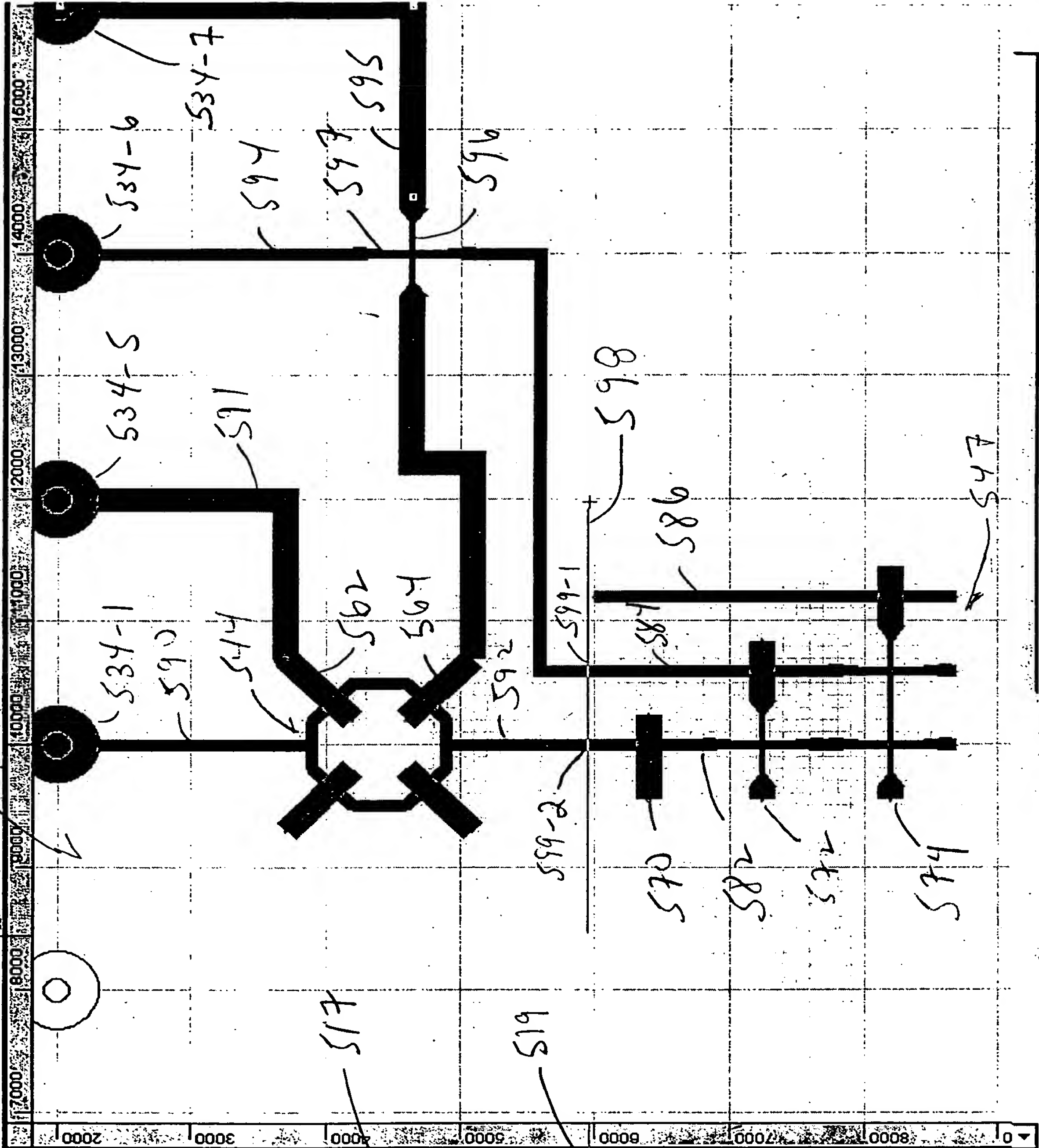
522

510

524

Fig 23

S45



Start

FluidArchitect - [Scheme...]

Preview and Enhance - C...

Ready

11950 um x 1: 5950 um y %252

3500 um

Layer

Control Layer

Channel Layer

Fluidic Layer

Channel Layer

C

I

F

I

1..

1..

1..

1..

Fig 24

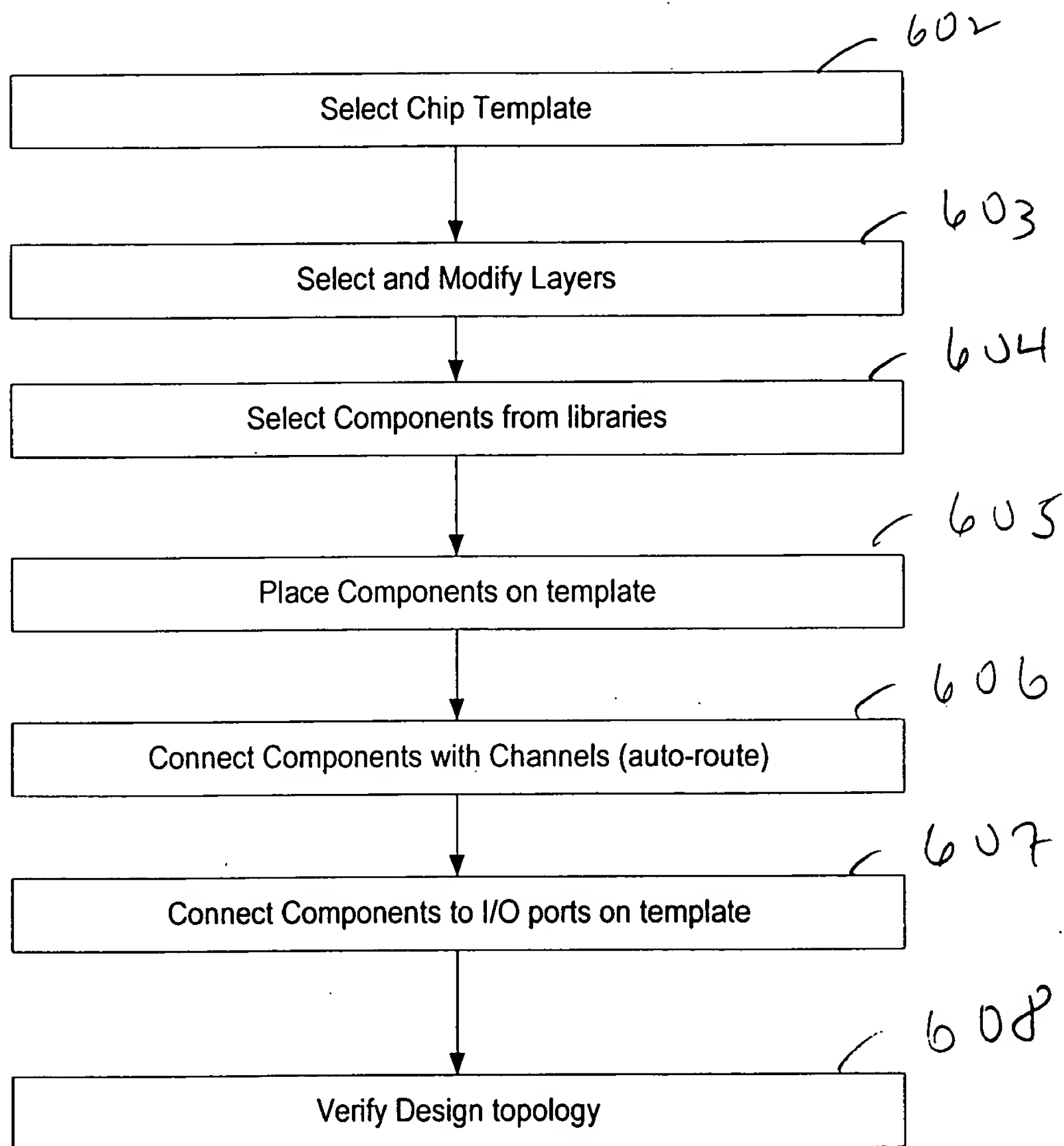


Fig 25

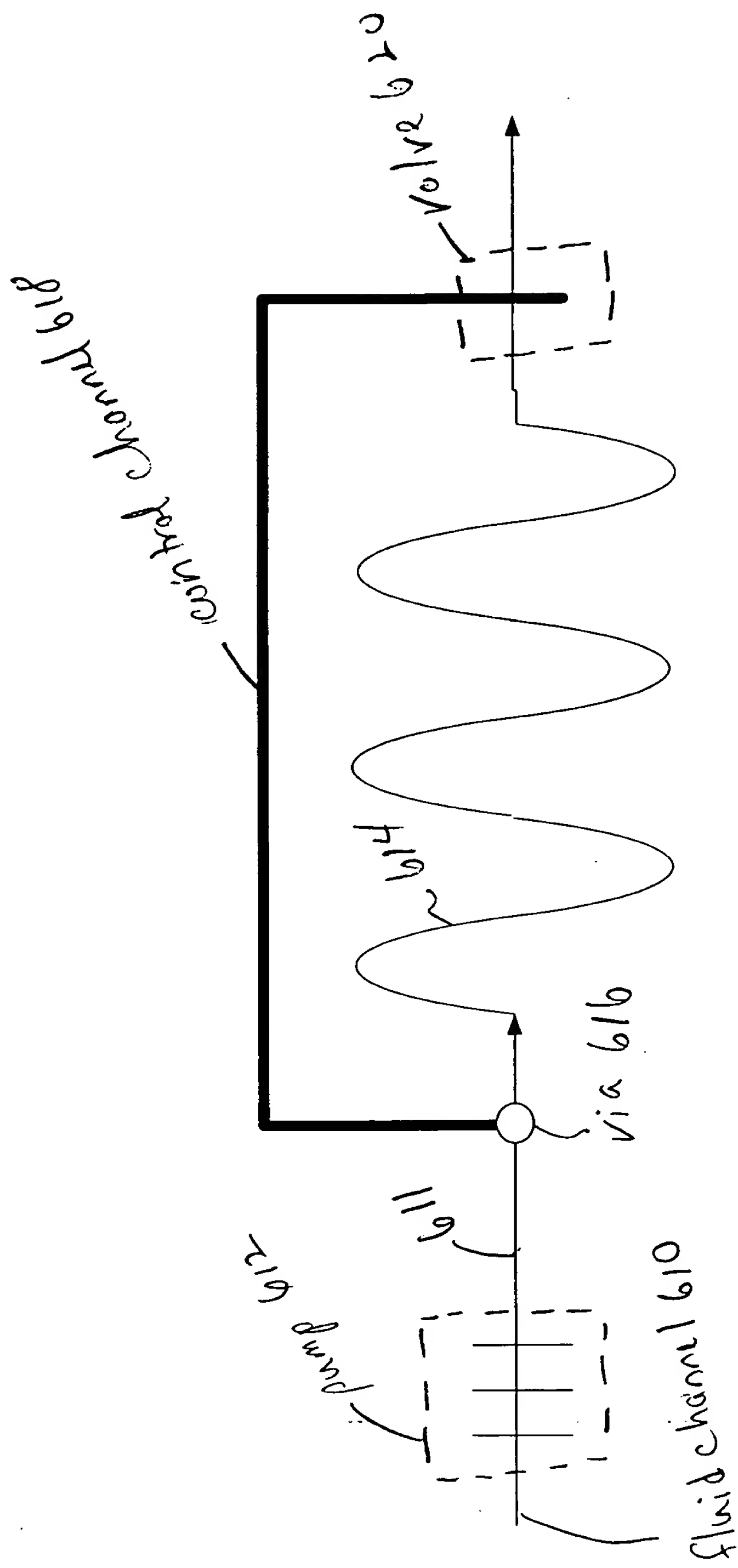
[illegible]

Fig 26

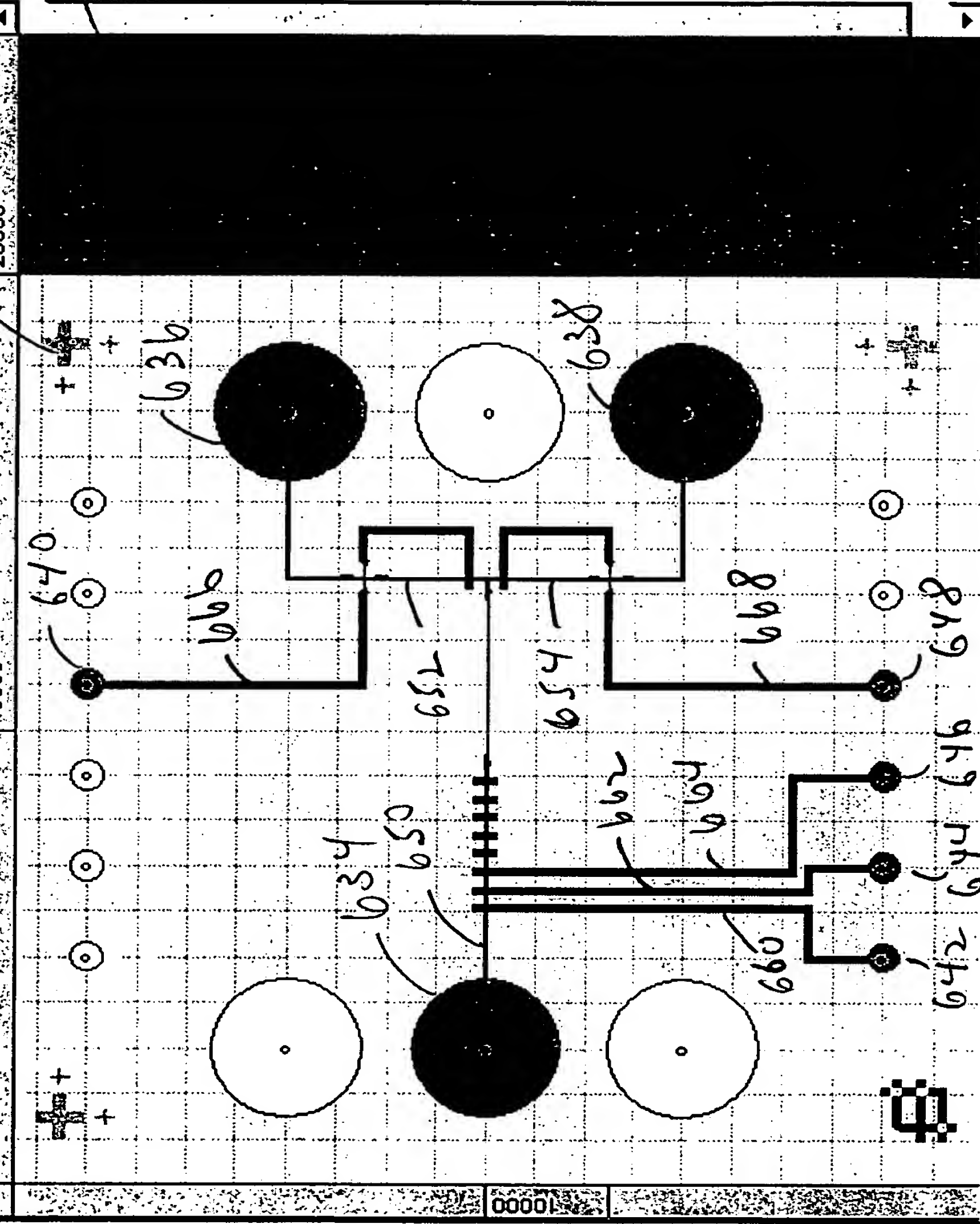
File Edit View Draw Modify Layer Window Help

Standard toolbar icons: Undo, Redo, Copy, Paste, Delete, Select, Lasso, Pan, Zoom, etc.

Property palette: Bridges, Channel Arrays, Control Components, Dampeners, Fluid Components, Fluid Mux Connectors, Mixers, Multiplexers, Pumps, Tapers, T-Switches, Valves.

Layer palette: Control Layer, Channel Layer, Fluidic Layer, Channel Layer.

Dimensions: 0, 10000, 20000



Ready 25300 um x : 12550 um y: %67

Fig 27

10230 2531000

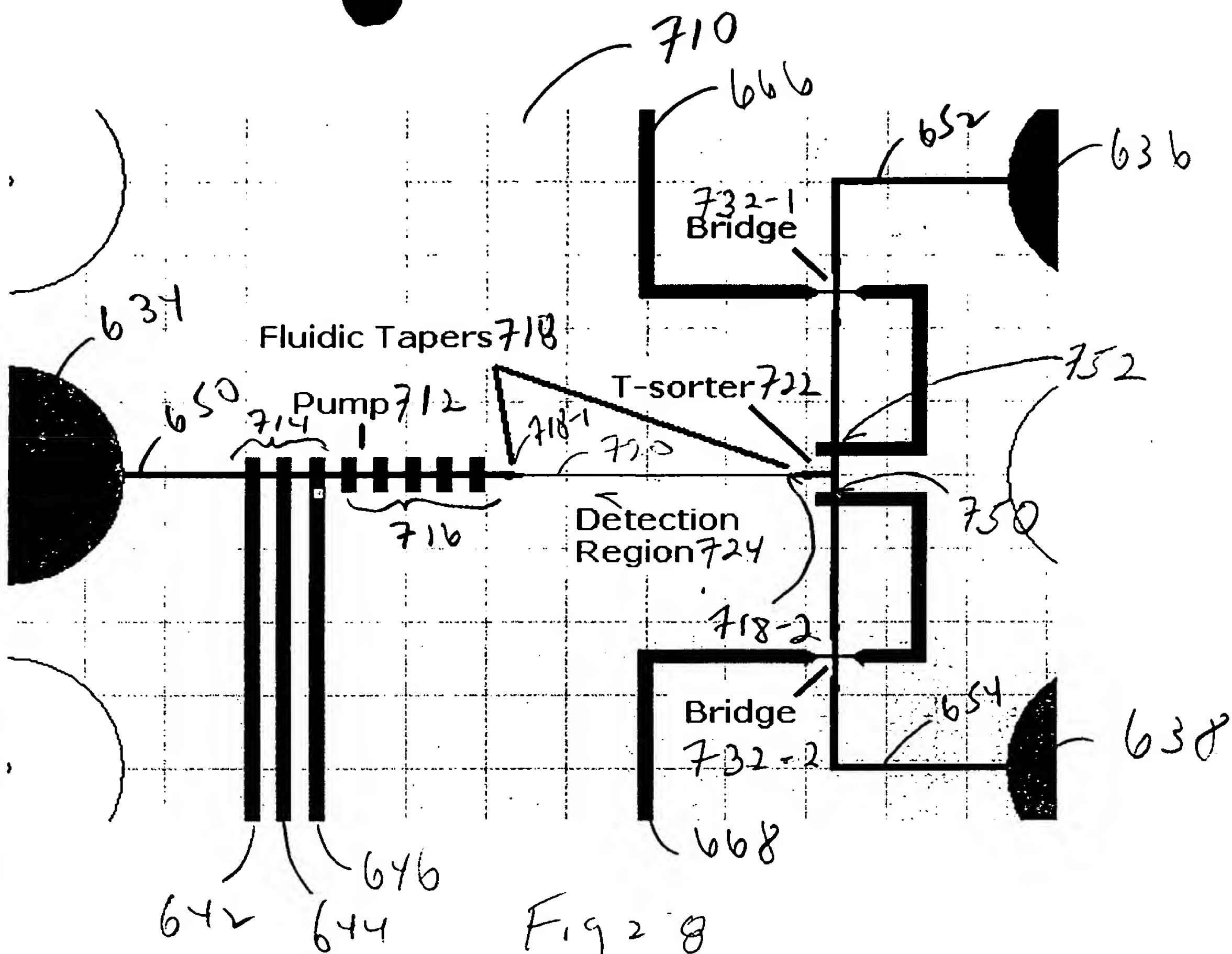


FIG. 29

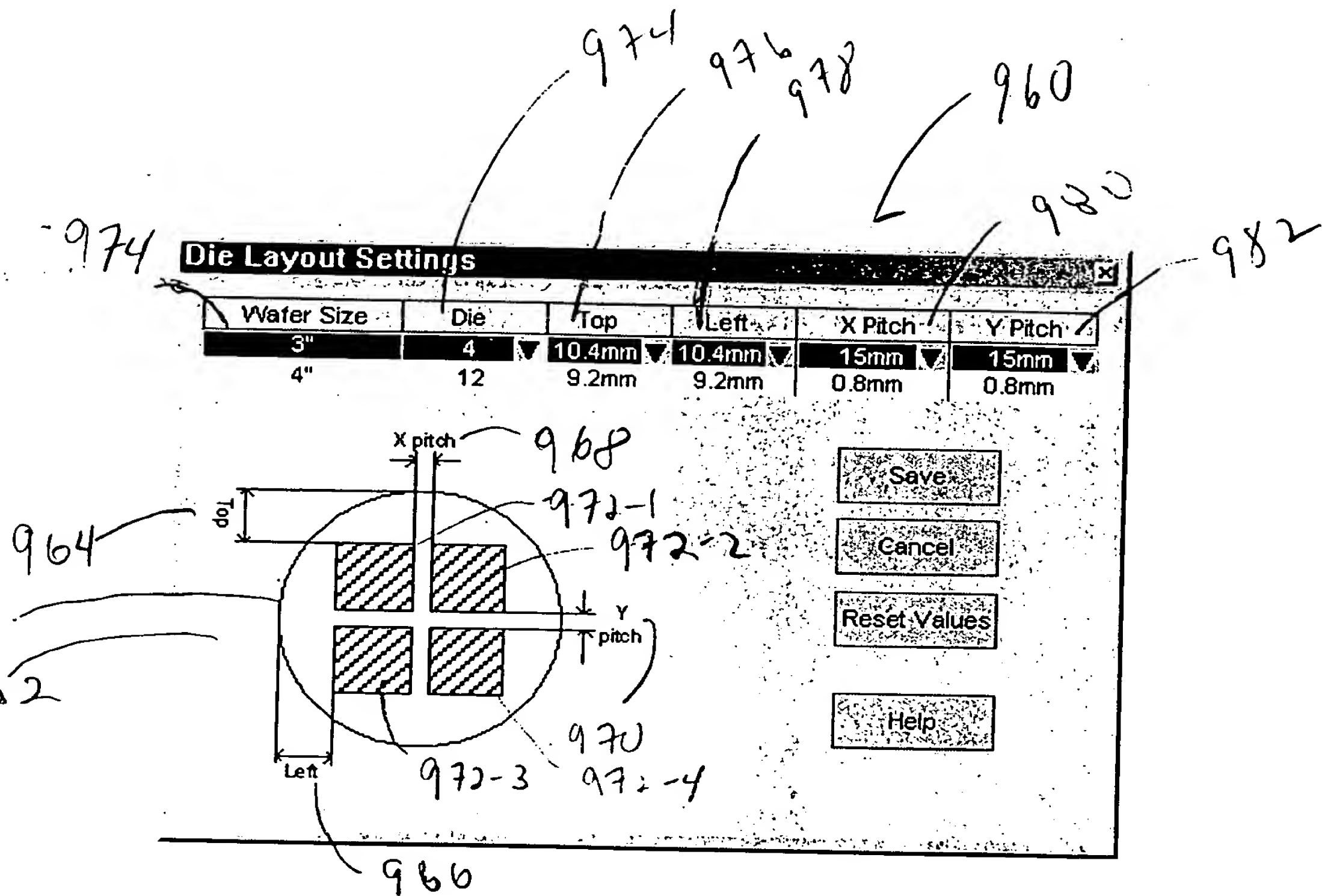


Fig 29.